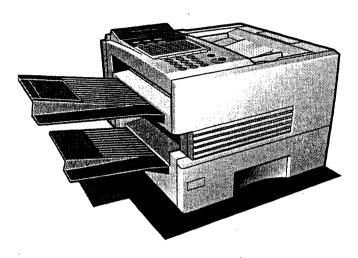
Order Number: MGCS990301C0

(Standard Version)

Service Manual

UF-885 / 895



⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attemptio service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic[®]

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1 General Description

1.1 Overview

This section covers the features and specifications of the plain paper facsimile transceiver "Panasonic UF-885/895". This fax machine can transmit and receive on the Public Switched Telephone Network (PSTN) in modes conforming to ITU-T / CCITT Group 3 recommendations.

1.2 General Features and Functions

Laser Printing

Clear picture quality is obtained by employing a Laser printing method on plain paper. The machine can print onto A4, Letter or Legal size paper.

2. Quick Scan

Quick Scan speeds the fax process by scanning and storing documents into memory at a rate of approximately 1 second* per page. This means that you no longer have to wait around until a transmission is completed before retrieving your originals. (* UF-885 : 2.8 seconds, based on ITU-T Image No.1 Test Chart at Standard Resolution. The Scanning speed applies only to the feeding process from the leading to the lagging edge of a single page test chart. The time it takes to store the document into memory is not applied for this definition)

3. Easy Maintenance

This laser printing mechanism only requires changing the toner cartridge, housing the drum, developer and toner.

Unlike other machines with removable EPROM (Erasable Programmable ROM), this machine is equipped with an F-ROM (Flash ROM). F-ROM offers the flexibility of quick and easy firmware updates, creation of a master firmware card, backup and restore of firmware and machine parameters.

4. Batch Transmission

The UF-885/895 permits accumulation of different documents for the same destination(s) to be transmitted in a single phone call.

5. Panasonic Super Smoothing

The machine incorporates a new sophisticated image processing technology to enhance print quality of ordinary received fax images by smoothing the curved edges of the character.

6. B4 size Scanning

B4 size is the maximum document width that can be scanned and transmitted.

7. Automatic Document Feeder

An Automatic Document Feeder feeds originals from the document tray automatically, starting with the bottom page. Capacity: 50 documents of average thickness and of the same size.

8. Speedy Transmission

The use of JBIG Coding with ECM achieves faster transmissions. Short Protocol reduces hand-shake time by shortening Phase B and D.

9. Error Correction Mode (ECM)

An Error Correction Mode, which conforms to ITU-T/CCITT Recommendations, allows error-free data transmissions. ECM with MMR or JBIG Coding also conforms to ITU-T/CCITT Recommendations.

10. Automatic Dialing Function

Up to 200 stations can be easily dialed by One-Touch Dialing or Abbreviated Dialing Function. Any other stations can be dialed directly from the keypad by entering the full telephone number (UF-895: up to 70 stations, UF-885: up to 32 stations).

11. Memory Transmission

The contents of a document can be stored into the document memory first, then transmitted from memory. Opeat or attendance until transmission ends is not necessary.

12. Multi-station Transmission

Using the document memory, the document can be transmitted to multiple destinations.

13. Multi-file Transmission

It is possible to store multiple documents, each of which could be transmitted to different destinations, into the document memory. Then the unit will transmit them sequentially (max. number of files: 30 files [UF-885], 70 files [UF-895]).

14. Deferred Communication

The built-in 24-hour timers allow the operator to set deferred transmissions or deferred polling. Using the document memory, documents can also be transmitted to multiple stations.

15. Substitute Reception

The contents of a document will be received into the document memory if the recording paper or toner runs out, or a recording paper jam occurs during reception. The stored documents can be printed after replacing the recording paper or toner cartridge or correcting a paper jam.

16. Multiple Operation

Multiple Access operations can store documents and their destinations even during reception or memory transmission. It can also receive during document storage.

17. Halftone (Photo)

For transmission or copying, this function ensures high quality reproduction of gray-shaded or photographic documents. This machine uses 64 levels of error diffusion to create halftones with Quality mode.

18. Copy Function

The Copy function allows the machine to be used as a copier. Using the document memory, up to 99 copies can be made of a single original.

19. 100 Transaction Journal

The 100 Transaction Journal provides transaction information - number of pages transmitted or received, start date and time, communication results, identification, etc. It is automatically printed after every 100 transactions, or it can be printed manually at anytime.

20. Latest Individual Transmission Journal

The latest Individual Transmission Journal provides information on the last transmission - number of pages transmitted, start date and time, communication results, identification, etc. It can be printed manually at anytime after communications.

21. Communication Journal

A communication journal is a result report of a communication which can be printed automatically after communication is completed. Printout conditions can be selected for each communication to 1) not print, 2) always print, or 3) print when communication has failed.

22. Multi-purpose LCD Display

The 20 x 2 Alphanumeric LCD display shows the operation mode, date and time, remote ID number, and pages transmitted or received. In case of an error, the LCD display shows an information code and error message indicating the exact cause of trouble.

23. Verification Stamp

The Verification Stamp is automatically stamped on the original document when the document is transmitted or stored in memory successfully. The "X" mark appears at the bottom of each page.

24. Password Transmission

A password transmitted from the other party is checked to prevent the transmission of documents to an unauthorized station.

25. Password Reception

A password transmitted from the other party is checked to prevent the reception of documents by an unauthorized station. The reception of junk mail, etc., is preventable.

26. Access Code

The Access Code can be registered into the machine to prevent operation by an unauthorized user.

27. Selective Reception

To prevent unwanted faxes from being received, the machine compares the ID Number of the transmitting machine with the telephone number stored in the built-in automatic telephone dialer.

28. Receive to Memory

Users can set the unit to store incoming documents into its available memory. Later, using a 4-digit password, stored documents can be printed when the user is present. This function helps ensure that important documents are not read or lost while they are sitting unattended in the fax tray.

29. Relay Transmission Reguest

By setting the machine as an initial sending station, the unit is capable of setting up a relay request to a central hub machine with a network password. Documents can then be automatically transmitted to the end receiving stations. This model is designed to operate as an initial sending station.

30. Confidential Transmission and Polling

The documents can be transmitted to a predetermined destination with a 4-digit confidential code utilizing the Confidential Mailbox function. Stored messages in the Confidential Mailbox can be polled by the receiver at the destination terminal.

31. Confidential Mailbox (Proprietary)

When the received message is stored into the memory with a 4-digit confidential code, the message can be printed on recording paper or polled by a remote station. A maximum of 20 mailboxes* can be used. A remote confirmation report such as Confidential Memory Report and/or Confidential XMT Report is not transmitted to the source station and/or the remote station after Confidential Mailbox reception or polling transmission. (*UF-885: 10 mailboxes)

32. Remote Diagnostic Function

The remote Diagnostic Function can be used to diagnose the unit remotely over the PSTN or equivalent. A new host system is required for high speed remote diagnostics to be available.

33. Check and Call Function

This feature enables the Authorized Servicing Dealers to manage and improve the Fax machine maintenance to their customers by alerting them of equipment problems. It also can be used as a Supply Sales Tool by alerting the Dealer that the unit is running Low on Toner. The function overview is as follows:

- a. The machine's printer error information is stored in the Printer Report.
- b. The printer report can be manually printed when required.
- c. When printer errors occur, the unit can automatically transmit the Service Alert Report to the pre-registered telephone number.
- d. When the unit detects Low Toner, it can automatically transmit the Maintenance Alert Report to the pre-registered telephone number.
- e. When the unit detects Low Toner, it can automatically print out the Toner Order Form with pre-registered order information.

34. Multiple LOGO

This operation allows the user to select one of the 25 preset LOGOs before a Transmission. The selected LOGO is printed on the Header of each page sent, Cover Sheet, COMM. Journal and Individual Journal.

35. Department Code

This operation requires the user to input a preset 4-digit Department Code before transmission. The Department Name of the selected Department Code is printed on the Header of each page sent, Cover Sheet, COMM. Journal and Individual Journal. When the Department Code is set, the Transaction Journal will be sorted by the Department Code number when it is printed. If you wish to prevent unauthorized persons from setting, changing or erasing Department Code settings, you th ould set the Access Code to restrict these settings.

36. File Transmission

This feature allows your machine to store the document(s) into a special File in memory. This special File can be reused for transmission to a single or multiple locations when desired. This File will remain in memory until it is manually (e leted.

1.3 General Specifications

Communication Facility
 Public Switched Telephone Network (PSTN)

Line Coupling Direct Coupling

- 3. Input Level
 - -5 to -43 dbm (Germany: -5 to -46 dbm)
- 4. Output Level

0 to -15 dbm

5. Control Procedure

ITU-T/CCITT Rec. T.30

MGCS Proprietary short protocol

6. Modem Speed

V34

33600 - 2400 bps @2400 step (QAM with TCM)

V.17

14400, 12000, TC9600, TC7200 bps (QAM with TCM)

V 33

14400, 12000 bps (QAM with TCM)

V 29

9600, 7200 bps (QAM)

V.27ter

4800, 2400 bps (PhM)

7. Coding Scheme

MH (Modified Huffman), MR (Modified Read), MMR (Modified Modified Read) JBIG (Joint Bi-level Experts Group)

- 8. Communication Resolution
 - <Transmission>

Standard

203 dpi x 98 lpi (8 pels/mm x 3.85 lines/mm)

Fine

203 dpi x 196 lpi (8 pels/mm x 7.70 lines/mm)

S-Fine

203 dpi x 391 lpi (8 pels/mm x 15.4 lines/mm) 406 dpi x 391 lpi (16 pels/mm x 15.4 lines/mm)

<Reception>

Standard

203 dpi x 98 lpi (8 pels/mm x 3.85 lines/mm)

Fine S-Fine 203 dpi x 196 lpi (8 pels/mm x 7.70 lines/mm)

203 dpi x 391 lpi (8 pels/mm x 15.4 lines/mm) 406 dpi x 391 lpi (16 pels/mm x 15.4 lines/mm)

9. Haiftone (Photo)

64 Levels, Error Diffusion

10. Error Correction Mode

ITU-T/CCITT Rec. T.30 ECM

11. Image Memory Capacity

(Flash Memory)

Standard (Base)

60 pages (UF-885)

120 pages (UF-895)

Option (Additional)

80 pages (1 MB byte: UE-410045)

160 pages (2 MB byte : UE-410046)

320 pages (4 MB byte : UE-410047)

640 pages (8 MB byte: UE-410048)

(using ITU-T Image No.1 in Standard Resolution)

- 12. Transmission Speed
 - 3 Seconds using ITU-T Image No. 1 in Standard Resolution, memory to memory communication.

13. Automatic Dialing

Dialing Signal

10 PPS/20 PPS/DTMF

Dialing Method

One-Touch Dialing

Up to 40 keys (including 8 programmable keys)

Up to 160 stations Abbreviated Dialing

Manual Number Dialing

Up to 70 stations (UF-895), Up to 32 stations (UF-885)

(Direct Dialing)

(Up to 36 digits including pauses)

Programmable Dialing

Up to 8 programmable keys

Combination Dialing

Combination of One-Touch, Abbreviated and Manual Number

Dialing

Multi-Station Dialing

Multi-Station Transmission/Polling

[Up to 232 stations (UF-885), Up to 270 stations (UF-895)]

Deferred Multi-Station Transmission//Polling

[Up to 232 stations (UF-885), Up to 270 stations (UF-895)]

Registration Memory Capacity in One-Touch and Abbreviated Dialing

Number of Stations

Up to 200 stations

Telephone number of

each station

Up to 36 digits (Including pauses and spaces)

Station name for each

station

Up to 15 characters

Redialing

Automatic

Up to 15 times with 0 to 15 minute intervals

Manual

By pressing the Redial button (last number dialed)

14. Print Reduction Ratio

A4 / Letter

70 to 100% in 1% steps

Legal

85 to 100% in 1% steps (according to the received document length)

15. Clock Backup Battery

This unit uses a Lithium battery to save the clock and calendar.

The service life is approximately 1 year during power faiure.

↑ CAUTION

denotes hazards that could result in minor injury or damage to the machine.

THIS PRODUCT CONTAINS A LITHIUM BATTERY. DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED.

REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS OF YOUR LOCAL SOLID WASTE OFFICIALS.

Scanner Specifications 1.4

1. Document Dimensions

Width

Minimum 148 mm

Maximum 280 mm

Length

Minimum 128 mm

Maximum 356 mm

Note

With operator's assistance, a maximum of 2000 mm length document can be sent (one page at a time) through the ADF.

2. Automatic Document Feeder

The Automatic Document Feeder feeds the originals from the document tray automatically, starting with the both m page.

Paper thickness

Single-page

: 0.06 to 0.15 mm

Capacity

Multi-page

: 0.06 to 0.12 mm

20 documents (Legal Size - 20 lb)

50 documents (Letter / A4 Size - 20 lb)

3. Scanning Method

Horizontal

Sheet Feeding with CCD type image sensor

Vertical

Stepper Motor feeding

4. Effective Scanning Width

252 mm

5. Scanning Resolution

Standard

8

8 pels/mm x 3.85 lines/mm

Fine

8 pels/mm x 7.7 lines/mm

S-Fine

8 pels/mm x 15.4 lines/mm

16 pels/mm x 15.4 lines/mm (Interpolated)

6. Contrast Selection

3 steps (Normal / Lighter / Darker)

1.5 Printer Specifications

1. Recording Paper Size (W x L)

Letter

216 x 279 mm

Legal

216 x 356 mm

A4

210 x 297 mm

2. Recommended Recording Paper Weight

60 to 90 g/m²

3. Paper Capacity with standard cassette

500 sheets (75g/m²).

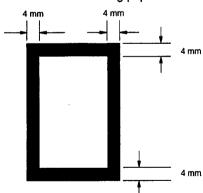
4. Printing Resolution

406.4 X 391.16 dpi (Fax or Copy)

600 X 600 dpi (Printer)

5. Non Printable Margin

The shaded areas represent the unprintable area on the recording paper.



6. Printing Speed

10 ppm (6 seconds/page)

7. Fuser Warm Up Time

Within 70 seconds after turning the power on.

[Room Temperature: 20 to 35°C]

1.6 Power

1. Power Requirement

180~264 VAC, 47~63Hz, Single Phase (200V Version) 99~138 VAC, 47~63Hz, Single Phase (100V Version)

2. Power Consumption

Max

 Reception
 :
 Approx. 460 W

 Copy
 :
 Approx. 470 W

 Transmission
 :
 Approx. 23 W

Standby (Sleep Mode: On) : Approx. 1.3 W/H (200V Version)
Standby (Sleep Mode: On) : Approx. 1.2 W/H (100V Version)

Approx. 470 W

Standby (Energy-Saver Mode: On) : Approx. 10 W/H Standby (Energy-Saver Mode: Off) : Approx. 85 W/H

[Room temperature: 25°C]

1.7 Environment

1. Operating Environment

Temperature : 10 to 35°C
Relative Humidity : 15 to 70% RH

Tilt : The unit must be kept on an even, level surface.

-20 to 50°C

2. Storage Environment (Carton Box Condition)

Temperature : -20 to 40°C

Relative Humidity : 5 to 85% RH

Note

The machine should be stored upright.

Temperature

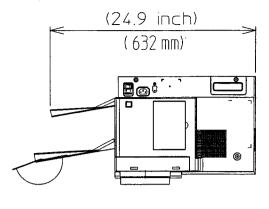
3. Transportation Environment (Max. 480 hours, Carton Box Condition)

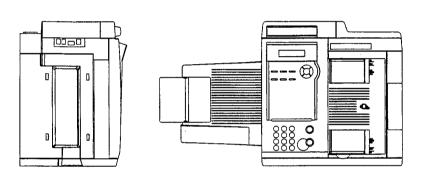
Relative Humidity : 15 to 85% RH

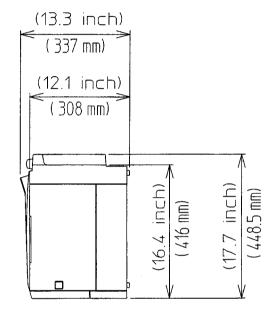
1.8 Construction

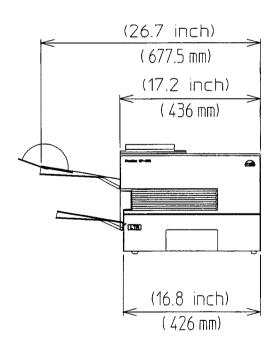
Dimensions (W x D x H) 440 x 450 x 310 mm Weight (excluding paper) Approximately 16 Kg

1.8.1 External View

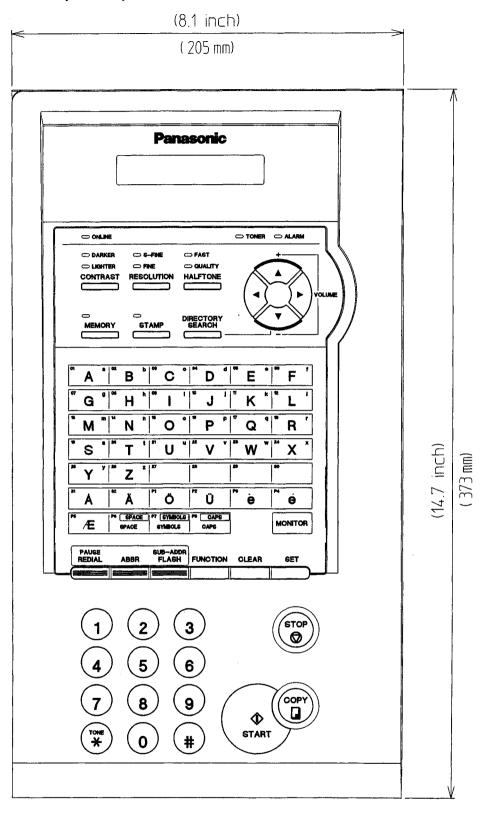




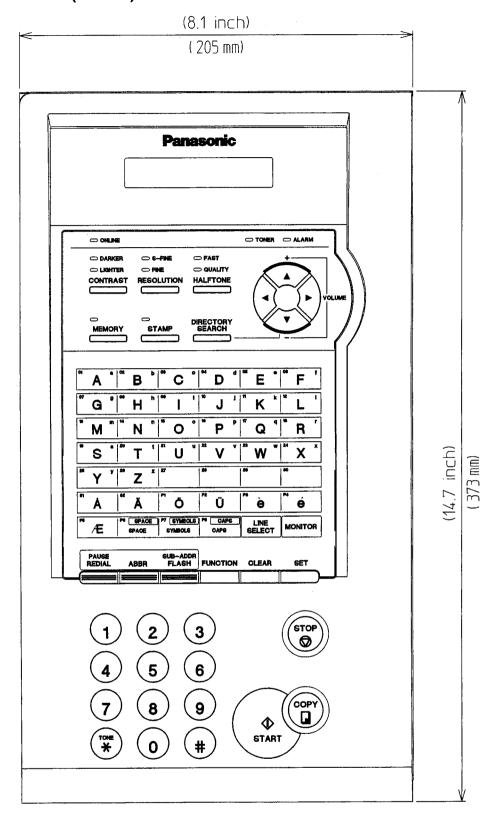




1.8.2 Control Panel (UF-885)



1.8.3 Control Panel (UF-895)



1.9 Function Table

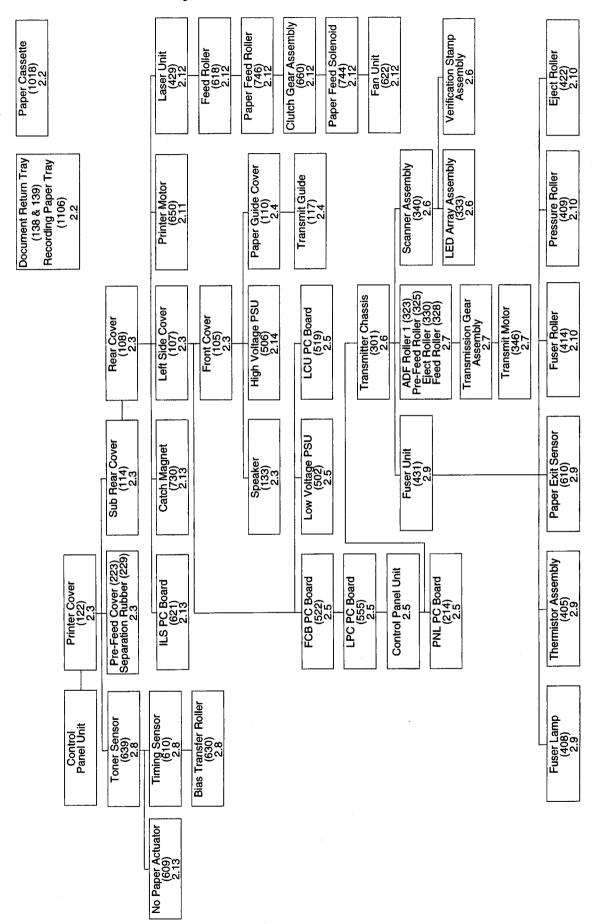
| Items | UF-885 | UF-895 |
|--|-------------------------------------|-------------------|
| MAIN SPECIFICATION | | |
| Compatibility | IG3 | - |
| Modem Speed (kbps) | 33.6 - 2.4 | ← |
| Coding Scheme | MH/MR/MMR/JBIG | |
| ECM (Conforms to ITU-T/CCITT) | Yes (MMR/JBIG) | ← |
| MWS | No | ← |
| Short Protocol | Yes (B, D) | |
| Transmission Speed | 3 seconds | ← |
| (ITU-T Image No.1) | | |
| Communication Resolution (dpi x lpi) | Tx 203 x 98 | |
| (Conforms to ITU-T/CCITT) | 203 x 196 | |
| | 203 x 391 | |
| | 406 x 391 | |
| | Rx 203 x 98 | |
| | 203 x 196 | i |
| | 203 x 391 | |
| | 406 x 391 | |
| SCANNER MECHANISM | · · | |
| ADF Capacity | 50 Sheets | - |
| Max. Document Size | 280 x 2000 mm | - |
| Min. Document Size | 148 x 128 mm | - |
| Effective Scanning Width | 252 mm | - |
| Scanning Device | CCD (B4) | ← |
| Scanning Resolution (dpi x lpi) | 203 x 98 (8 pels x 3.85 lines/mm) | ← |
| · | 203 x 196 (8 pels x 7.7 lines/mm) | |
| | 203 x 391 (8 pels x 15.4 lines/mm) | |
| | 406 x 391 (16 pels x 15.4 lines/mm) | |
| O | (Interpolated) Approx. 2.8 seconds | Approx. 1 second |
| Scanning Speed (A4 size document, standard resolution) | Approx. 2.8 seconds | Approx. I second |
| Reduction XMT | Yes (B4 →A4/Letter) | |
| Collation Stack | Yes | |
| PRINTER MECHANISM | 163 | |
| Recording Method | Laser Printing | ← |
| Recording Paper Size | A4/Letter/Legal | |
| Recording Paper Capacity | 500 sheets (Cassette) | - |
| Optional Recording Paper Cassette | Yes (250, 500 or 250 + 500 sheets) | ← |
| Effective Printing Width | Letter : 208 mm | ← |
| Ellective Filiting Width | A4 : 202 mm | |
| Recording Resolution | 406 x 391 dpi (Fax or Copy) | ← |
| Tecording Flesolation | 600 x 600 dpi (Printer) | |
| Recording Speed | 10 ppm (6 sec / page) | |
| Heater Timer (Inc. Fan Timer) | Yes | <u>←</u> |
| Collation Stack | Yes (Memory) | |
| Cassette Size Detector | Yes | <u></u> |
| DOCUMENT MEMORY | | |
| Document Memory Capacity | [60 pages (1 MB) | [120 pages (2 MB) |
| (Flash Memory) | 1 . , , , | |
| Optional Document Memory | Yes | ← |
| (Flash Memory) | 1 MB: +80 pages | |
| 77 | 2 MB: +160 pages | |
| | 4 MB: +320 pages | |
| | 8 MB: +640 pages | |
| Document Memory Backup | Yes (Permanent) | ← |
| Optional Document Memory Backup | No (not required) | |
| PRINTER PAGE MEMORY | <u> </u> | |
| Optional Page Memory | | |
| (D-RAM Memory) | Yes | ← |
| 2 MB | Yes | ← |
| 4 MB | Yes | ← |
| 8 MB | Yes | - |
| COPY QUALITY | | |
| ABC | Yes | ← |
| Contrast Selection | Yes (3 levels) [New Type] | |
| Halftone (Photo) | 64 levels Error Diffusion, | ← |
| | Fast and Quality Mode | |
| L | | * |

| Items | UF-885 | UF-895 |
|-------------------------------------|--|---|
| Super Fine (dpi x lpi) | 203 x 391 | ← |
| Capi v ino (api v ipi) | 406 x 391 | |
| Smoothing | Yes (Copy and Fax) | ← |
| om souring | No (PC Printing) | |
| MULTIPLE OPERATIONS | The (i o i liming) | 1 |
| Multiple Operation | Yes | |
| | I | - |
| Direct XMT Reserve | Yes | ← |
| Memory XMT Reserve | Yes | |
| DIALING FEATURES | | |
| One-Touch Keys | 32 | ← |
| One-Touch/Program Keys | 8 | ← |
| Auto dialing locations | 200 | |
| One-Touch Auto Dialing | 40 | |
| Abbr. Auto Dialing | 160 | ← |
| Max. digits on AD | 36 | <u></u> |
| Max. ID characters on AD | 15 | <u></u> |
| Alternative Abbr. Dialing | No | |
| | | |
| Full Number Dialing | 32 stations | 70 stations |
| Redialing | Yes | ← |
| Combination Dialing | Yes (On Monitor Dialing Mode only) | ← |
| Directory Search Dialing | Yes | ← |
| Line Monitor Speaker | Yes | ← |
| Pulse/Tone change | Yes | ← |
| Flash Key | Yes | ← |
| TRANSMISSION FEATURES | <u> </u> | |
| Memory Transmission | IYes | ← |
| Multi-Station Transmission | Yes (232 stations) | Yes (270 stations) |
| Multifile Transmission | Yes (30 files) | Yes (70 files) |
| Deferred Transmission | Yes (30 times) | Yes (70 times) |
| Deferred Multi-Station Transmission | Yes (30 timers, 232 stations) | Yes (70 timers) Yes (70 timers, 270 stations) |
| | | |
| Priority Transmission | Yes (ADF TX Reserve) | ← |
| Batch Transmission | Yes (Up to 5 files) | <u>←</u> |
| Cover Sheet | Yes | <u>←</u> |
| RECEPTION FEATURES | | |
| Substitute Memory Reception | Yes | |
| Auto Reduction to A4 / Letter | Yes (70-100%) | ← |
| Auto Reduction to Legal | Yes (85-100%) | ← |
| Overlapping Print | Yes | ← |
| Fax/Tel Auto Switch | No | ← |
| TAM interface | No | |
| Parallel TAM hookup | No | ← |
| Receive to Memory | Yes | |
| Remote Reception | No | <u>·</u> |
| Distinctive Ring Detector | Yes (Specific countries only) | |
| POLLING FEATURES | 100 (Openio countries oray) | ← |
| | TVaa | |
| Polling | Yes | |
| Turnaround Polling | No | ← |
| Multi-Station Polling | Yes (232 Stations) | Yes (270 Stations) |
| Continuous Polling Tx | Yes (Station mode) | ← |
| Continuous Polling Rx | Yes | ← |
| Deferred Polling | Yes (30 timers) | Yes (70 timers) |
| Deferred Multi-Station Polling | Yes (30 timers, 232 stations) | Yes (70 timers, 270 stations) |
| Direct Polling TX | Yes (Select the function by parameter 03 | ← |
|] | "Continuous Polling".) | |
| Memory Polling TX | Yes (1 file) | ← |
| Preset Polling Password | Yes | <u>←</u> |
| Temporary Polling Password | Yes | <u>`</u> |
| COPY FUNCTIONS | 1.00 | <u> </u> |
| | IVoo | 1, |
| Single Copy | Yes | - |
| Multiple Copy | Yes (99 copies) | ← |
| Copy Enlargement | No | ← |
| Copy Reduction | Yes (Zoom Ratio: 70 - 100%) | ← |
| Copy Resolution | 406 x 391 lpi | ← |
| CERTAINTY | | |
| Verification Stamp | Yes | ← |
| Header / Total Page Print | Yes | |
| | | |
| Comm. Journal | Yes (w / image) | |

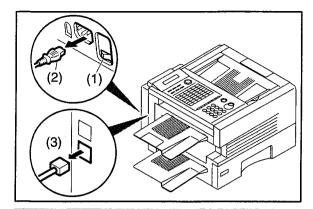
| Items | UF-885 | UF-895 |
|--|---|--|
| Transaction Journal | Yes (100) | ← |
| Last Individual XMT Journal | Yes | ← |
| View Mode | Yes | ← |
| LIST PRINTOUTS | 1 | |
| One-Touch List | Yes | ← |
| Abbr. No. List | Yes | ← |
| Program List | Yes | ← |
| Directory Search List | Yes | ← |
| Fax Parameter List | Yes | |
| File List | Yes | ← |
| Character Code List | No | <u>←</u> |
| Directory Sheet | Yes | ← |
| Callback Message | INo | ← |
| IDENTIFICATIONS | | |
| Logo/TTI | 25 characters | ← |
| Multiple Logo | Yes (25) | ← |
| Character ID | 16 characters | ← |
| Numeric ID | 20 digits | <u>←</u> |
| SPECIAL COMM. | <u> </u> | |
| Password XMT/RCV (Closed Network) | Yes | ← |
| Selective Reception (TSI check) | Yes | <u>←</u> |
| Relay XMT Request | Yes | ← |
| Relay XMT Center | No | <u>←</u> |
| Confidential XMT/Polling | Yes | ← |
| Confidential Comm. Center | No | <u>←</u> |
| Mailbox XMT/Polling | Yes | <u>←</u> |
| Mailbox Center | Yes (10 boxes) | Yes (20 boxes) |
| | <u> </u> | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| IOMR-XMT | No | l← |
| OMR-XMT Sub-Address XMT | F | ← |
| Sub-Address XMT | Yes (T. Routing) | ← |
| Sub-Address XMT Sub-Address RCV | F | |
| Sub-Address XMT Sub-Address RCV File Transmission | Yes (T. Routing) Yes (T. Routing with PC I/F) | ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS | Yes (T. Routing) Yes (T. Routing with PC I/F) | ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes | |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No | ← ← ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) | ← ← ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD | ← ← ← ← ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) | ← ← ← ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys | ← ← ← ← ← ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes | ← ← ← ← ← ← ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No | ← ← ← ← ← ← ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No | ← ← ← ← ← ← ← ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) | ← ← ← ← ← ← ← ← ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No | ← ← ← ← ← ← ← ← ← ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No Yes | ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No Yes | ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function OPTIONS G3 Communication Port | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No Yes Yes | ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No Yes Yes Yes | ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function OPTIONS G3 Communication Port Scanner Interface | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No Yes (Up to 5 files) No Yes Yes Yes Yes Yes | ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function OPTIONS G3 Communication Port Scanner Interface Printer Interface Printer Interface | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No Yes | ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function OPTIONS G3 Communication Port Scanner Interface Printer Interface (PDL) | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No Yes | ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function OPTIONS G3 Communication Port Scanner Interface Printer Interface Encryption Interface | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes (PCL6) Yes (300/600 dpi) No | ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function OPTIONS G3 Communication Port Scanner Interface Printer Interface Printer Interface Encryption Interface V24 Interface | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No Yes Yes Yes Yes Yes Yes Yes Yes No No Yes (24) Yes (25) Yes No No No No Yes (10 to 5 files) No Yes (25) No Yes Yes Yes | ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function OPTIONS G3 Communication Port Scanner Interface Printer Interface Encryption Interface V24 Interface PC Interface | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No Yes Yes Yes Yes Yes Yes Yes Yes No No Yes (24) Yes (25) Yes No No No No Yes (10 to 5 files) No Yes (25) No Yes Yes Yes | ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function OPTIONS G3 Communication Port Scanner Interface Printer Interface Encryption Interface V24 Interface PC Interface CONSTRUCTION Telephone Handset | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No Yes Yes Yes Yes Yes Yes Yes Yes Yes No No Yes Yes Yes Yes | ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← |
| Sub-Address XMT Sub-Address RCV File Transmission OTHERS Access Code Pin Code Access (PBX Access Code) Department Code Panel Display Logo Input Method Remote Diagnostic Function Internal Demo 2-W Leased Line Al Redial Auto Multi-copy Auto-Forwarding Check & Call Function OPTIONS G3 Communication Port Scanner Interface Printer Interface Encryption Interface V24 Interface PC Interface CONSTRUCTION | Yes (T. Routing) Yes (T. Routing with PC I/F) Yes Yes No Yes (24) 20 x 2 Alphanumeric LCD Character Keys Yes No No No Yes (Up to 5 files) No Yes Yes Yes Yes Yes Yes Yes Yes | ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← |

2 Disassembly Instruction

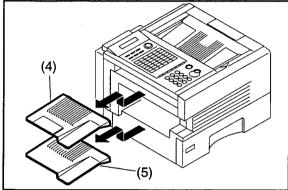
2.1 General Disassembly Flowchart



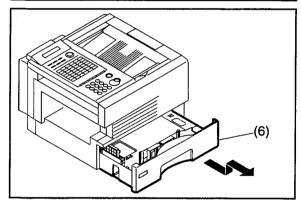
2.2 Power Cord (1108), Telephone Line Cable (1107), Document Return Tray (138 and 139), Recording Paper Tray (1106), Paper Cassette (1018)



- (1) Turn the Power Switch "OFF".
- (2) Disconnect the Power Cord (1108).
- (3) Disconnect the Telephone Line Cable (1107).

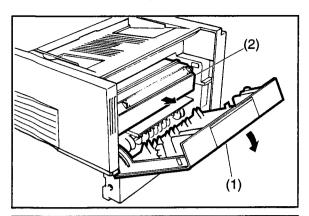


- (4) Remove the Document Return Tray (138 and 139).
- (5) Remove the Recording Paper Tray (1106).

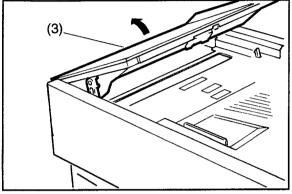


(6) Remove the Paper Cassette (1018).

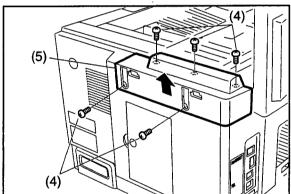
2.3 Sub Rear Cover (114), Rear Cover (108), Left Side Cover (107), Front Cover (105), Speaker (133)



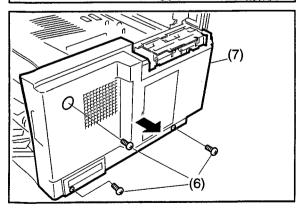
- (1) Open the Printer Cover (122).
- (2) Remove the Toner Cartridge.



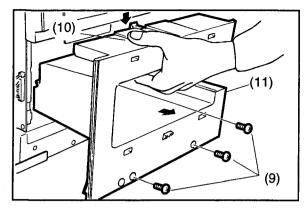
(3) Open the Control Panel Unit.

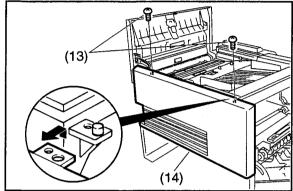


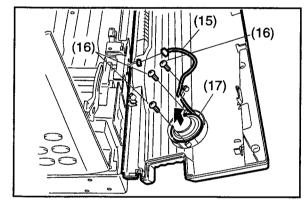
- (4) 5 Screws (B1).
- (5) Remove the **Memory Card Cover** (115) and the **Sub Rear** Cover (114).

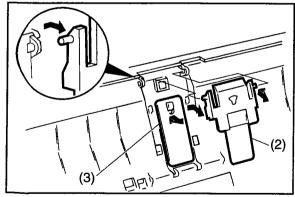


- (6) 3 Screws (B1).
- (7) Remove the Rear Cover (108).









- (8) Close the Control Panel Unit.
- (9) 3 Screws (B1).
- (10) Hold in the center and release the Latch Hook.
- (11) Remove the Left Side Cover (107).

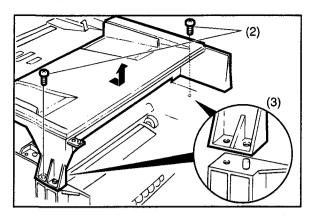
- (12) Open the Control Panel Unit.
- (13) 2 Screws (B1).
- (14) Release the hook and remove the Front Cover (105).

- (15) Disconnect Connector on the Speaker Harness.
- (16) 2 Screws (B1), 1 Screw (1Y).
- (17) Remove the Speaker Assembly (133).

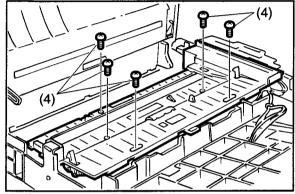
Cleaning Separation Rubber (229)

- (1) Open the Control Panel Unit.
- (2) Remove the Pre-Feed Cover (223).
- (3) Remove the Separation Rubber (229).
- (4) Clean the **Separation Rubber** (229) with a soft cloth, soaked with isopropyl alcohol.

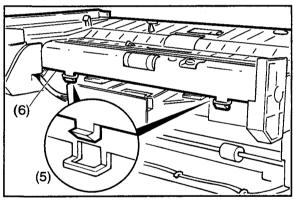
2.4 Paper Guide Cover (110), Transmit Guide (117), SNS Assembly (121)



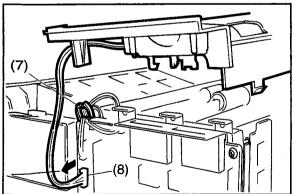
- (1) Remove the **Front Cover** (105) and the **Rear Cover** (108) (Refer to 2.3).
- (2) 2 Screws (19).
- (3) Remove the Paper Guide Cover (110).



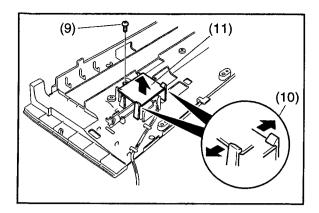
(4) 5 Screws (19).



- (5) Release two Latch Hooks.
- (6) Remove the Transmit Guide (117).

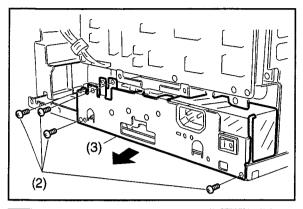


- (7) Remove the SNS Assembly Harness from the clamp.
- (8) Disconnect Connector CN7 on the FCB PC Board.

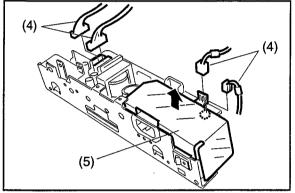


- (9) 1 **Screw** (19). (10) Release two Latch Hooks.
- (11) Remove the SNS Assembly (121).

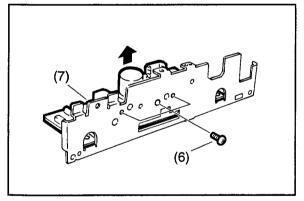
2.5 Low Voltage Power Supply Unit (502), FCB PC Board (522), LCU PC Board (519), LPC PC Board (555), Control Panel Unit, PNL PC Board (214)



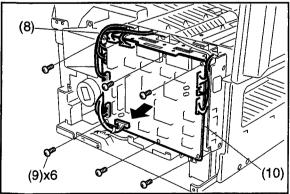
- (1) Remove the **Left Side Cover** (107) and the **Rear Cover** (108) (Refer to 2.3).
- (2) 4 Screws (19).
- (3) Pull out the Low Voltage Power Supply Assembly.



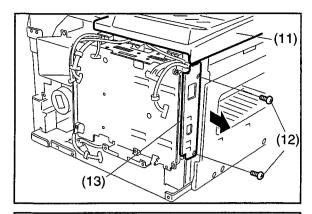
- (4) Disconnect 4 **Connectors** on the Low Voltage Power Supply Assembly.
- (5) Remove the Mylar Shield (508).



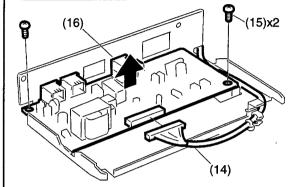
- (6) 3 Screws (19).
- (7) Remove the Low Voltage Power Supply Unit (502).



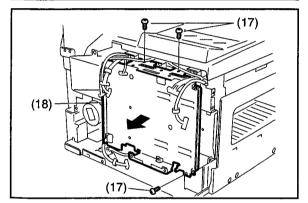
- (8) Disconnect all Connectors on the FCB PC Board.
- (9) 6 Screws (C8).
- (10) Remove the FCB PC Board (522).



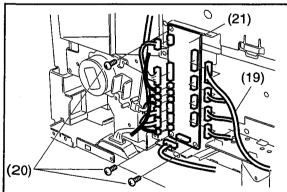
- (11) Close the Control Panel Unit.
- (12) 2 Screws (19).
- (13) Remove the LCU Bracket (512).



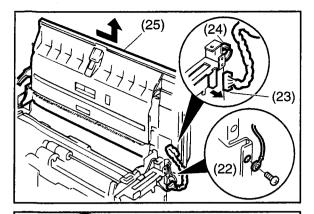
- (14) Disconnect Connector CN25 on the LCU PC Board.
- (15) 2 Screws (C8).
- (16) Remove the LCU PC Board (519).

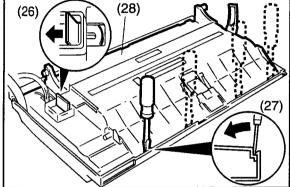


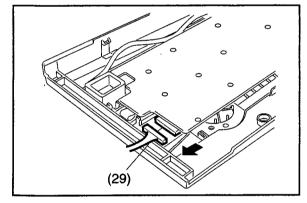
- (17) 3 Screws (19).
- (18) Remove the FCB Bracket (523).

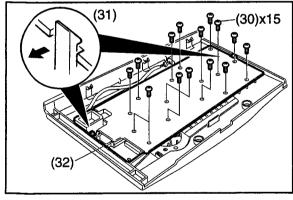


- (19) Disconnect all Connectors on the LPC PC Board.
- (20) 3 Screws (C8).
- (21) Remove the LPC PC Board (555).







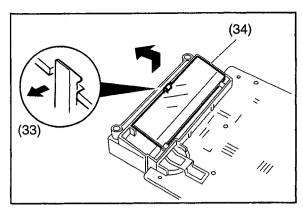


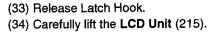
- (22) 1 Screw (19) and remove the Ground Strap (540).
- (23) Disconnect Connector CN11 on the FCB PC Board.
- (24) Remove the Harness from the clamp.
- (25) Remove the Control Panel Unit.

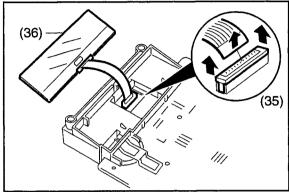
- (26) Remove the Battery Holder (1114) Assembly.
- (27) Release 4 Latch Hooks.
- (28) Remove the Control Panel Chassis (216).

(29) Disconnect Connector CN41 on the PNL PC Board.

- (30) 15 Screws (7B).
- (31) Release two Latch Hooks.
- (32) Remove the PNL PC Board (214).

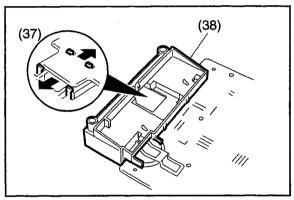






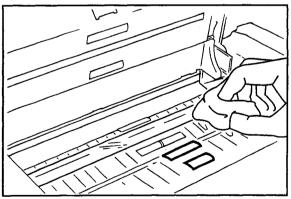
(35) Disconnect Connector CN42 on the PNL PC Board.





(37) Release 4 Latch Hooks on the back of the LCD Holder.

(38) Remove the LCD Holder (232).

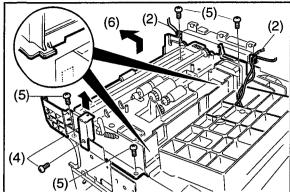


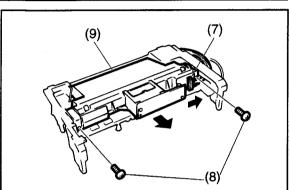
Cleaning ADF Roller (323), Pre-Feed Roller (325), Feed Roller (328), Eject Roller (330) and the Scanner Glass (341)

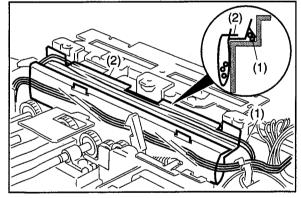
(1) Open the Control Panel Unit.

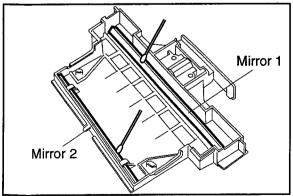
(2) Clean the ADF Roller (323), Pre-Feed Roller (325), Feed Roller (328), Eject Roller (330) and the Scanner Glass (341) with a soft cloth, soaked with isopropyl alcohol.

Transmitter Chassis (301), Scanner Assembly (340), 2.6 LED Array Assembly (333), Verification Stamp Assembly









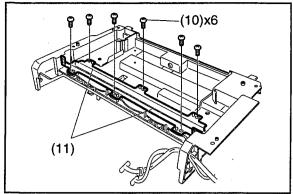
- (1) Remove the Front Cover (105), Rear Cover (108) (Refer to 2.3) and the Control Panel Unit (Refer to 2.5).
- (2) Remove all the harnesses from the clamps.
- (3) Disconnect Connector CN8 on the FCB PC Board.
- (4) 1 Screw and remove the Front Bracket 2 (136).
- (5) 4 Screws (19).
- (6) Remove the Transmitter Chassis (301) Assembly.
- (7) Disconnect Connector CN30 on the CCD PC Board.
- (8) 2 Screws (19).
- (9) Remove the Scanner Assembly (340).

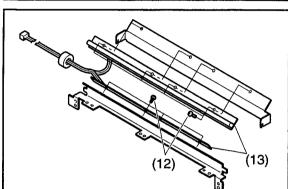
Note: When reinstalling the CCD Harness,

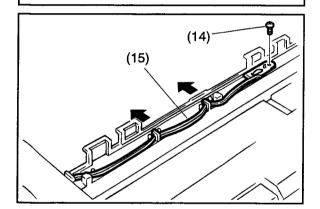
- 1. Separate the CCD Harness (545) from the other
- 2. Place the other harnesses into the Harness Protector Film

Cleaning Mirror 1 (337), Mirror 2 (338)

Clean the Mirror 1 (337) and Mirror 2 (338) with a softcloth, soaked with isoproyl alcohol.







- (10) 6 Screws (19).
- (11) Remove the LED Array Bracket 1 (332) and LED Array Bracket 2 (351).

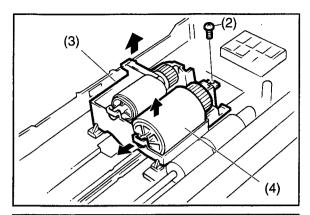
- (12) 8 Screws (9H).
- (13) Remove two LED Array Assemblies (333).

Note:

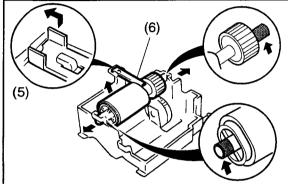
UF-885 has only one LED Array Assembly.

- (14) 1 Screw (19).
- (15) Remove the **Stamp Holder** (334) and **Stamp Solenoid** (335).

2.7 ADF Roller (323), Pre-Feed Roller (325), Eject Roller (330), Feed Roller (328), Transmission Gear Assembly, Transmit Motor (346)



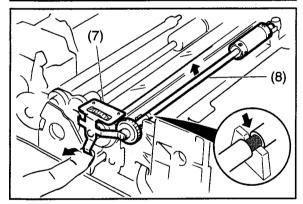
- (1) Remove the Front Cover (105), Rear Cover (108) (Refer to 2.3), Control Panel Unit (Refer to 2.5) and the Transmitter Chassis (301) Assembly (Refer to 2.6).
- (2) 1 Screw (19).
- (3) Remove the ADF Bracket (317) Assembly.
- (4) Remove the ADF Roller (323).



- (5) Remove the Pressure Spring Plate (324).
- (6) Remove the Pre-Feed Roller (325).

Note:

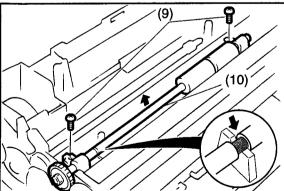
Apply Molykote EM-50L Grease to the Pre-Feed Roller (325).



- (7) Remove the Ground Spring Plate A (316).
- (8) Remove the document Eject Roller (330).

Note:

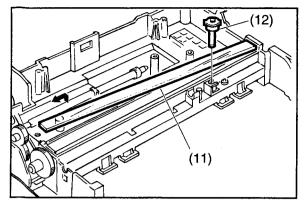
Apply Molykote EM-50L Grease to the Eject Roller (330).



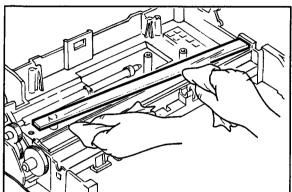
- (9) 2 Screws (19).
- (10) Remove the Feed Roller (328).

Note

Apply Molykote EM-50L Grease to the Feed Roller (328).

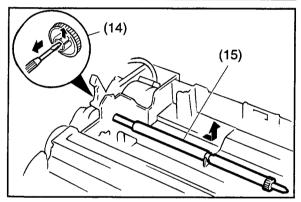


- (11) Remove the Scanner Glass (341).
- (12) Remove the Stamp Head Assembly.



Note:

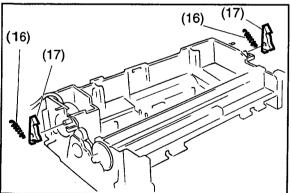
Before reassembling, clean both sides of the Scanner Glass (341) with a soft cloth, soaked with isoproyl alcohol.



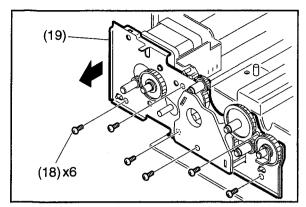
- (13) Release the hook on the drive gear.
- (14) Remove the **B31B61 Drive Gear** (314).
- (15) Remove the **Idle Shaft** (331) and the **B18 Drive Gear** (348).

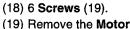
Note:

Apply Molykote EM-50L Grease to the Idle Shaft (331).

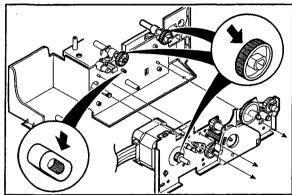


- (16) Remove 2 Latch Coil Springs (303).
- (17) Remove 2 Latches (302).



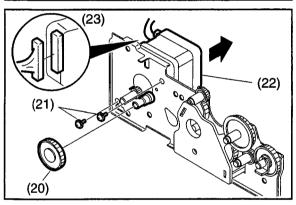


(19) Remove the **Motor Bracket A** (304) with the Transmission Gear Assembly.



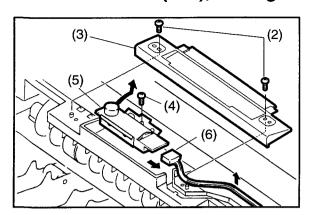
Note

Apply Molykote EM-50L Grease to the Transmit Motor (346) Gear, B35 Drive Gear (Feed Roller) (326) and B35 Drive Gear (Eject Roller) (326).

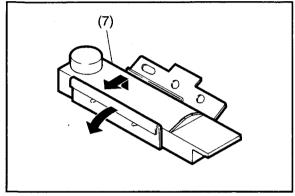


- (20) Remove the **B30 Gear** (307).
- (21) 2 Screws (36).
- (22) Remove the Transmit Motor (346).
- (23) Remove the TMOT Harness (347).

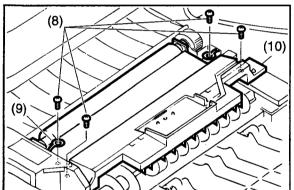
2.8 Toner Sensor (639), Timing Sensor (610), Bias Transfer Roller (630)



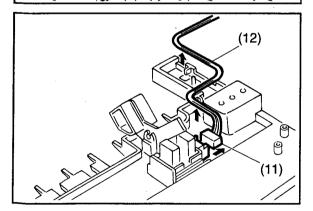
- (1) Open the **Printer Cover** (122) (Refer to 2.3).
- (2) 2 Screws (19).
- (3) Remove the Toner Sensor Cover (640).
- (4) 1 Screw (19).
- (5) Remove the Toner Sensor Assembly.
- (6) Disconnect **Connector** and remove the **Harness** from the Upper Transport Guide.



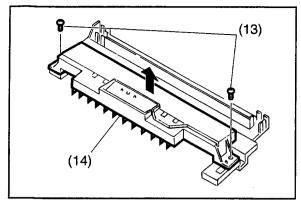
(7) Remove the Toner Sensor (639).



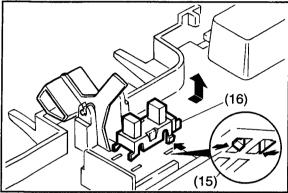
- (8) 4 Screws (19). (Remove the resistor screw first)
- (9) Remove the Ground Strap (653).
- (10) Remove the Transport Unit.



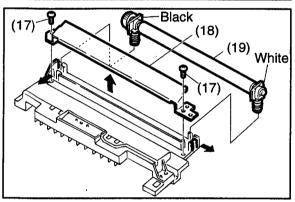
- (11) Disconnect Connector from the Timing Sensor.
- (12) Remove the Harness from the Transport Unit.



- (13) 2 Screws (19).
- (14) Remove the Upper Transfer Guide (635).

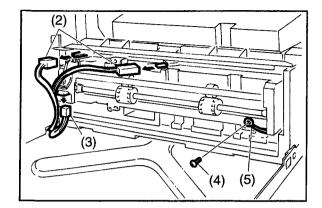


- (15) Release 2 Latch Hooks.
- (16) Remove the **Timing Sensor** (610).

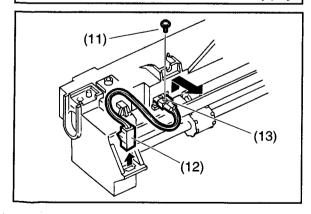


- (17) 2 Screws (19).
- (18) Remove the BTR Guide (629).
- (19) Remove the Bias Transfer Roller (630).

2.9 Fuser Unit (431), Fuser Lamp (408), Thermistor Assembly (405), Paper Exit Sensor (610)



- (6) (7) (6)
- (10)



- (1) Remove the Left Side Cover (107) (Refer to 2.3).
- (2) Disconnect 2 Connectors.
- (3) Disconnect the Relay Connector.
- (4) 1 Screw (19).
- (5) Remove the Ground Strap (653).

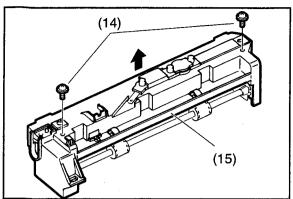
- (6) 3 Screws (4N).
- (7) Remove the Fuser Unit (431).

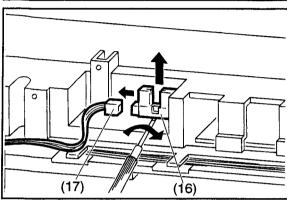
- (8) 1 Screw (23).
- (9) Remove the Fuser Lamp Terminal C (404).
- (10) Remove the Fuser Lamp (408).

Caution:

When re-installing the Fuser Lamp, make sure that the Fuser Lamp is inserted into the Fuser Unit as illustrated on the left. Do not touch the glass portion of the Fuser Lamp with bare hands. Grease from the fingerprints will shorten its life cycle, use isopropyl alcohol to clean fingerprints.

- (11) 1 Screw (1Q).
- (12) Disconnect Connector.
- (13) Remove the Thermistor Assembly (405).

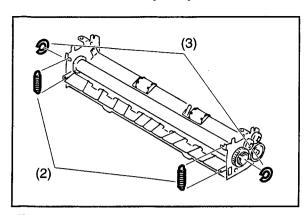




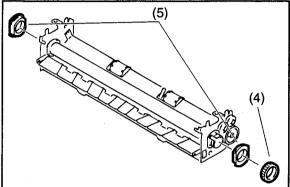
- (14) 2 Screws (23).(15) Remove the Fuser Cover (401).

- (16) Remove the Paper Exit Sensor (610).(17) Disconnect Connector.

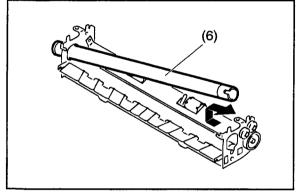
2.10 Fuser Roller (414), Pressure Roller (409), Eject Roller (422)



- (1) Remove the Fuser Unit (431) (Refer to 2.9).
- (2) 2 Pressure Springs (412).
- (3) 2 C-Rings (418).



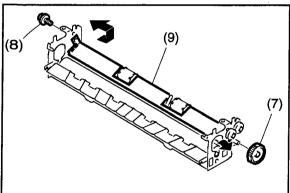
- (4) Remove the E24 Drive Gear (417).
- (5) Remove 2 P17L6.8 Bushings (416).



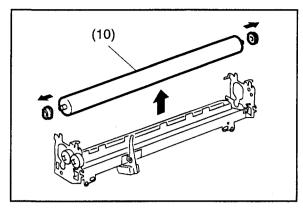
(6) Remove the Fuser Roller (414).

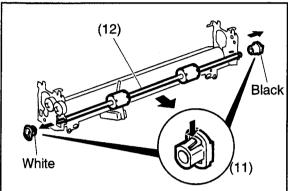
Caution:

Do not scratch the surface of the Fuser Roller when removing or re-installing it.



- (7) Remove the E22 Gear (425).
- (8) 1 Screw (4N).
- (9) Remove the Lower Paper Guide (426).



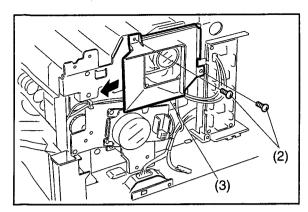


(10) Remove the **Pressure Roller** (409).

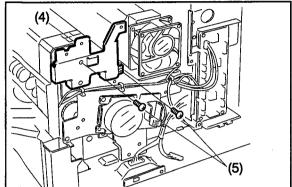
Do not scratch the surface of the Pressure Roller when removing or re-installing it.

- (11) Remove the Black and the White Bushings (423) (424).
- (12) Remove the **Eject Roller** (422).

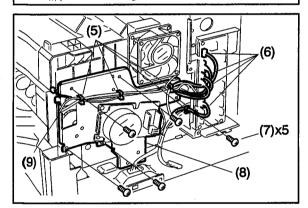
2.11 Fan Duct (520), Printer Motor (650), Motor Bracket (641)



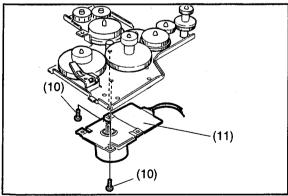
- (1) Remove the the Front Cover (105), Rear Cover (108) (Refer to 2.3), Control Panel Unit and FCB Bracket (523) (Refer to 2.5).
- (2) 2 Screws (19).
- (3) Remove the Fan Duct (520).



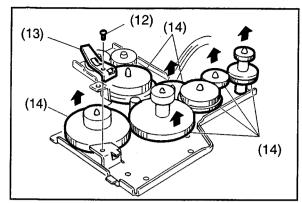
- (4) 2 Screws (19).
- (5) Remove the Fan Duct Bracket (526).

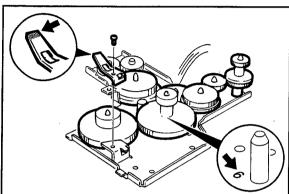


- (6) Remove the Harnesses from the 4 clamps.
- (7) Disconnect Connectors CN54, 55, 59, 61, 62 and 63 on the LPC PC Board.
- (8) 5 Screws (19).
- (9) Remove the Motor Bracket (641).



- (10) 2 Screws (19).
- (11) Remove the Printer Motor (650).





- (12) 1 Screw (19).
- (13) Remove the Transfer Ground Spring (649).
- (14) 7 Gears.

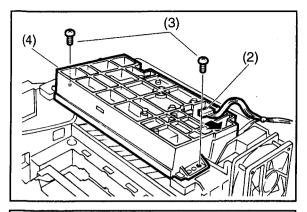
Caution:

When re-installing the gear (labeled "6"), be sure to install the washer on the shaft first.

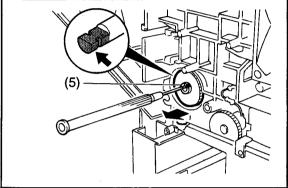
Note:

Apply KS-660 Conductive Grease to the Transfer Ground Spring (649) or to the end of the Feed Roller Shaft (618), see page 41.

2.12 Laser Unit (429), Feed Roller (618), Paper Feed Roller (746), Clutch Gear Assembly (660), Paper Feed Solenoid (744), Fan Unit (622)



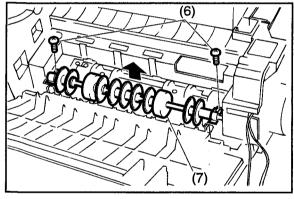
- (1) Remove the the Front Cover (105), Rear Cover (108) (Refer to 2.3), Paper Guide Cover (110) (Refer to 2.4), Control Panel Unit (Refer to 2.5), and Motor Bracket and Gear Assembly (Refer to 2.11).
- (2) Disconnect Connectors.
- (3) 2 Screws (19).
- (4) Remove the Laser Unit (429).



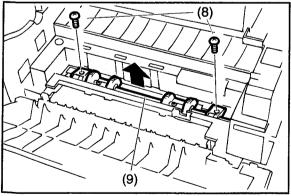
(5) Remove the E34 Drive Gear (620).

Note:

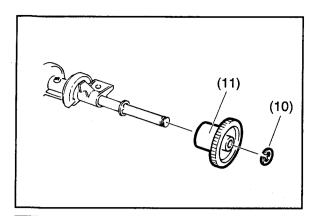
When reassembling, apply KS-660 Conductive Grease to the end of the Feed Roller Shaft (618).



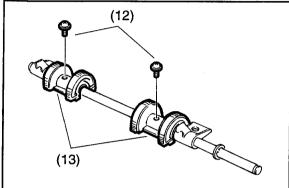
- (6) 2 Screws (19).
- (7) Remove the Feed Roller (618).



- (8) 2 Screws (19).
- (9) Remove the Paper Feed Roller Assembly.



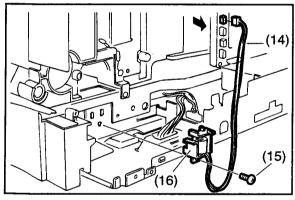
- (10) Remove the **E-Ring** (5Z).
- (11) Remove the Clutch Gear Assembly (660).



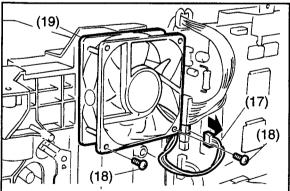
- (12) 2 Screws (23).
- (13) Remove the Paper Feed Rollers (746).

Note:

The Paper Feed Rollers can be accessed from the bottom of the machine after removing the Paper Cassette.

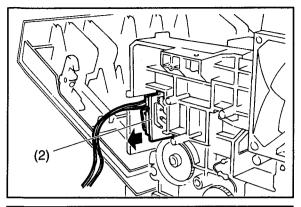


- (14) Disconnect Connector CN55 on the LPC PC Board.
- (15) 1 Screw (19).
- (16) Remove the Paper Feed Solenoid (744).

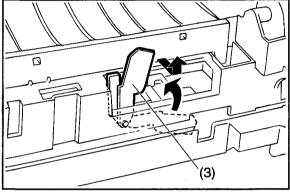


- (17) Disconnect Connector CN54 on the LPC PC Board.
- (18) 2 Screws (1Y).
- (19) Remove the Fan Unit (622).

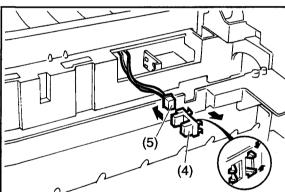
2.13 ILS PC Board (621), No Paper Actuator (609), Catch Magnet (730)



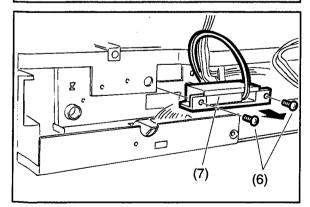
- (1) Remove the the Front Cover (105), Rear Cover (108) (Refer to 2.3), Paper Guide Cover (110) (Refer to 2.4), Control Panel Unit (Refer to 2.5), and Motor Bracket and Gear Assembly (Refer to 2.11).
- (2) Remove the ILS PC Board (621).



(3) Remove the No Paper Actuator (609).

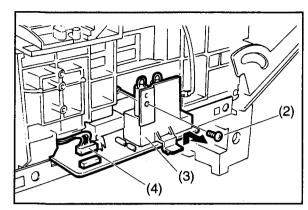


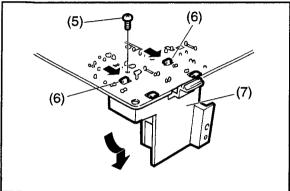
- (4) Remove the Paper Sensor (610).
- (5) Pull out the Paper Sensor from the rear, and disconnect the **Connector**.



- (6) 2 Screws (19).
- (7) Remove the Catch Magnet (730).

2.14 High Voltage Power Supply (HVPS) (506)





- (1) Remove the Front Cover (105) (Refer to 2.3).
- (2) 1 Screw (19).
- (3) Pull out the High Voltage Power Supply (HVPS) (506).
- (4) Disconnect **Connector CN39** on the High Voltage Power Supply (HVPS).

- (5) 1 Screw (19).
- (6) Release 2 Latch Hooks.
- (7) Remove the High Voltage Terminal Cover (503).

2.15 Screw Identification Template

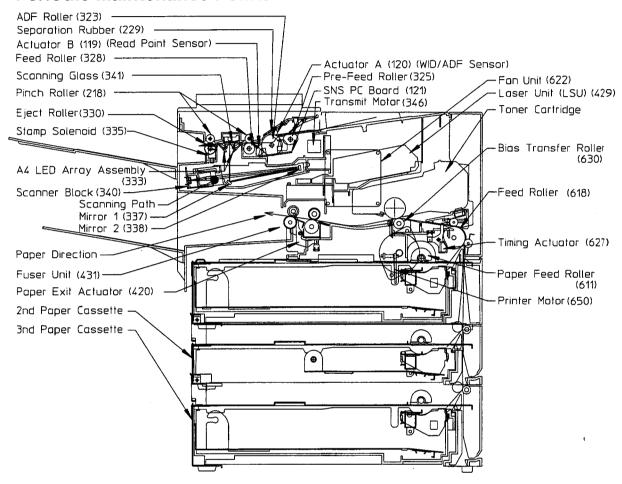
| Ref No. | Part No. | Figure | Remark |
|---------|------------|--------------------|-------------------|
| 19 | XTB3+8J | (2) [jiiiiii | Screw |
| 1Q | XYN3+F10 | | Screw |
| 1Y | XTB3+10J | (f) []IIIIII | Screw |
| 23 | XYN3+F8 | | Screw |
| 35 | XYN4+F6 | | Screw |
| 430 | DZPF000001 | © E | Nut |
| 4N | XSN3+W8FC | | Screw |
| 5Y | XUC4 | | E-Ring |
| 5Z | XUC6 | | E-Ring |
| 652 | DZPK000001 | | Washer |
| 7B | XTB26+6J | & (] 1111 1 | Screw |
| В1 | DZPB000007 | (2) (] | Screw |
| B5 | XSB4+10BN | (+) (1) | Screw |
| C8 | XTW3+8SFC | | Screw |
| _ | DZPA000013 | (2) []mm | Red Colored Screw |

3 Maintenance, Adjustments and Check Points

3.1 Required Tools

| No. | Tool | No. | Tool |
|-----|----------------------------------|-----|--------------------------------------|
| 1 | Soft Cloth | 7 | Pliers |
| 2 | Isopropyl Alcohol | 8 | Cotton Swab |
| 3 | Phillips Screwdriver (#2) | 9 | Brush |
| 4 | Stubby Phillips Screwdriver (#2) | 10 | KS-660 - Conductive Grease |
| 5 | Blade-tip Screwdriver (3/32 in) | 11 | Molykote EM-50L Grease (Dow Corning) |
| 6 | Tweezer | | |

3.2 Periodic Maintenance Points



3.3 Periodic Maintenance Check List

The chart outlined below is a general guideline for maintenance. The example list is for an average usage of 50 transmitted and received documents per day. Needless to say, the environmental conditions and actual use will vary these factors.

The chart below is for reference only.

| Transmitting mechanism parts | Cleanii | ng | Replacement / Adjustment | | |
|------------------------------|-----------------------------------|----------------|-------------------------------|---------|--|
| | Cycle | Method | Cycle | Method | |
| ADF Roller (323) | 3 months | Page 27 | 3-5 years(30,000 documents) | Page 30 | |
| Separation Rubber (229) | 3 months | Page 21 | 1-3 years(10,000 documents) | Page 21 | |
| Pre-Feed Roller (325) | 3 months | Page 27 | 3-5 years(30,000 documents) | Page 30 | |
| Mirrors (337 and 338) | 12 months | Page 28 | - | Page 28 | |
| Verification Stamp (336) | • | - | 5,000 documents | Page 31 | |
| Feed Roller (328) | 3 months | Page 27 | 3-5 years(30,000 documents) | Page 30 | |
| ADF Transmit Motor (346) | - | - | 5 years | Page 30 | |
| Eject Roller (330) | 3 months | Page 27 | 3-5 years(30,000 documents) | Page 30 | |
| Latch (302) | 12 months | - | - | - | |
| Toner Cartridge | - | - | 10,000 pages (See Note) | | |
| Feed Roller (618) | 12 months or 10,000 documents | Alcohol | - | Page 41 | |
| Clutch Gear Assembly (660) | 12 months or 10,000 documents | Alcohol | | Page 41 | |
| Paper Feed Solenoid (744) | 12 months or 10,000 documents | Alcohol | | Page 41 | |
| Bias Transfer Roller (630) | 12 months or 10,000 documents | - | 30,000 documents | Page 33 | |
| Fuser Unit (431) | When replacing Print Cartridge | Cleaning chart | 50,000 documents | Page 35 | |
| Paper Feed Roller (746) | 12 months or 10,000 documents | Alcohol | 30,000 documents | Page 41 | |
| Fuser Lamp (408) | - | - | 50,000 documents or 2-5 years | Page 35 | |
| Fuser Roller (414) | 12 months or 10,000 documents | Alcohol | - | Page 37 | |
| Pressure Roller (409) | 12 months or 10,000 documents | Alcohol | - | Page 37 | |
| Fan (622) | • | - | 3-5 years | Page 41 | |
| Printer Motor (650) | - | - | 5 years | Page 39 | |

Note

The number of pages is based on the ITU-T Image No. 1 test chart at Standard resolution and Multi-Copy mode.

3.4 Updating the Firmware

Unlike other machines with removable EPROM (Erasable Programmable ROM), this machine is equipped with an F-ROM (Flash ROM). F-ROM offers the flexibility of quick and easy firmware updates, creation of a master firmware card, backup and restore of firmware and machine parameters.

The following is the basic procedure to update the firmware of the machine. The details are described in the Firmware Update Kit User's Guide. (Order No.: UE-406053 and UE-406055)

3.4.1 Creating a Master Firmware Card

A. Utilizing the Firmware Update Kit.

- 1. Install the Firmware Update Kit.
- 2. Install a Flash Memory Card (2 MB or higher) into the machine.
- 3. Follow the instructions included in the Firmware Update Kit User's Guide.

B. Copy the Firmware from an Existing Machine

- 1. Turn the Power Switch to the OFF (O) position.
- 2. Install a Flash Memory Card (2 MB or higher) into the machine.
- 3. Turn the Power Switch to the ON (I) position.
- 4. Perform the Service Mode 9-2 (Firmware Backup).
- 5. The firmware is copied into the Flash Memory Card.
- 6. After the backup is completed, press "STOP" to return to standby.
- 7. Turn the Power Switch to the OFF (O) position.
- 8. Remove the Master Firmware Card that you just created from the machine.
- 9. Turn the Power Switch to the ON (I) position.
- 10. Use this Master Firmware Card to update the firmware on other machines.

3.4.2 Updating the Firmware using the Master Firmware Card

- 1. Before starting, print the Fax and Function Parameter Lists.
- 2. Turn the Power Switch to the OFF (O) position.
- 3. Install the appropriate Master Firmware Card into the machine.
- 4. Turn the Power Switch to the ON (I) position.
- 5. Perform the Service Mode 9-1 (Firmware Update).
- 6. The firmware is copied into the machine.
- 7. After the update is completed, the machine reboots itself and returns to standby.
- 8. Perform the Service Mode 6 (Parameter Initialization).
- 9. Turn the Power Switch to the OFF (O) position.
- 10. Remove the Master Firmware Card from the machine.
- 11. Turn the Power Switch to the ON (I) position.
- 12. Reprogram the Fax and/or Function Parameters according to the lists printed in Step 1 above if the settings are other than factory default.

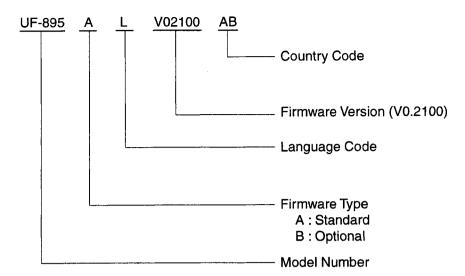
3.4.3 Erasing the Master Firmware Card

- 1. Turn the Power Switch to the OFF (O) position.
- 2. Install the Master Firmware Card into the machine.
- 3. Turn the Power Switch to the ON (I) position.
- 4. Perform the Service Mode 9-5 (PC → Flash Card).
- 5. The firmware is erased from the card and the following message is shown on the display:

READY TO PROGRAM
PRESS SET TO START

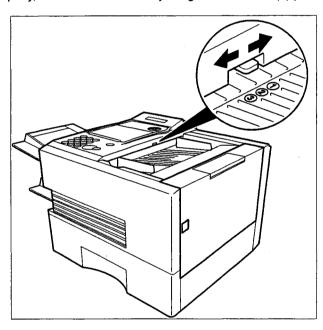
- 6. Press "STOP" twice to return to standby.
- 7. Turn the Power Switch to the OFF (O) position.
- 8. Remove the blank Flash Memory Card from the machine.
- 9. Turn the Power Switch to the ON (I) position.

3.4.4 Firmware Version



3.5 ADF Pressure

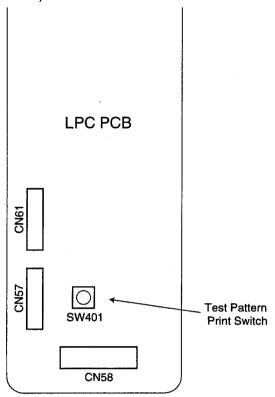
- When documents multi-feed, move the pressure Adjusting Lever to the 3 (H) position.
- When documents do not feed properly, move the Pressure Adjusting Lever to the 1 (L) position.



| Position | Pressure of separator | Situation |
|----------|-----------------------|--|
| 1 (L) | Low | When the documents misfeed |
| 2 (M) | Medium | Normal Position (Factory set position) |
| 3 (H) | High | When the documents multi-feed |

3.6 Printer Unit Test

- 1. You can check the printer with the FCB PCB disconnected from the unit (Sections 2.5).
- 2. Press the Test Pattern Print Switch (SW401) on the LPC PCB as shown below.

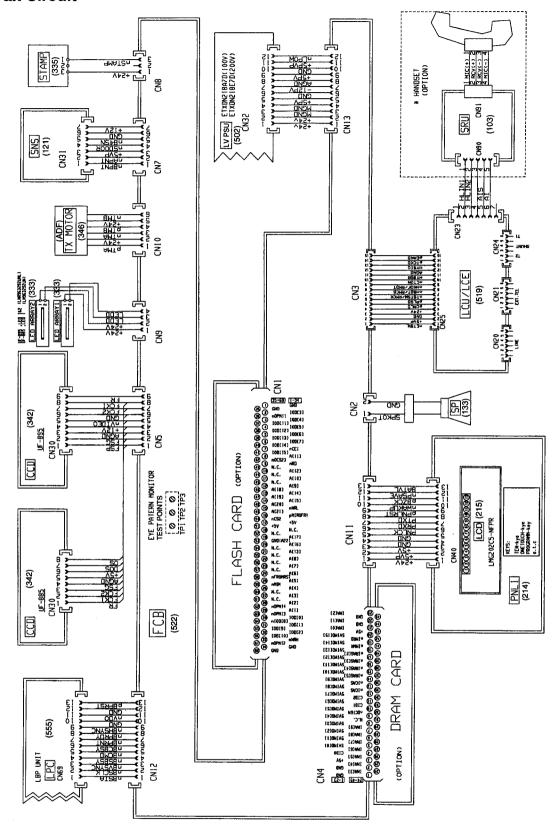


| | Pattern | Selection method | Stop method |
|--------------------|-----------------------|---|-----------------|
| Pattern 0 (400dpl) | 1-dot Horizontal line | Switch ON for less than 2 seconds | Switch ON again |
| Pattern 1 (600dpi) | 1-dot Horizontal line | Switch ON for 2 seconds or more | Switch ON again |
| •• | Blank page | Switch ON for 2 seconds or more while printing out a Pattern 1. | Switch ON again |

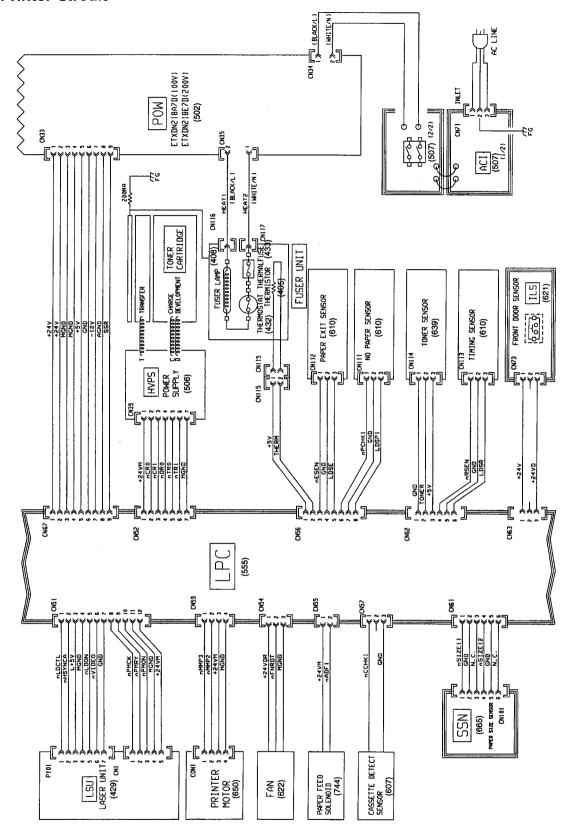
3. The Test Pattern prints. Check the print Quality.

3.7 General Circuit Diagram

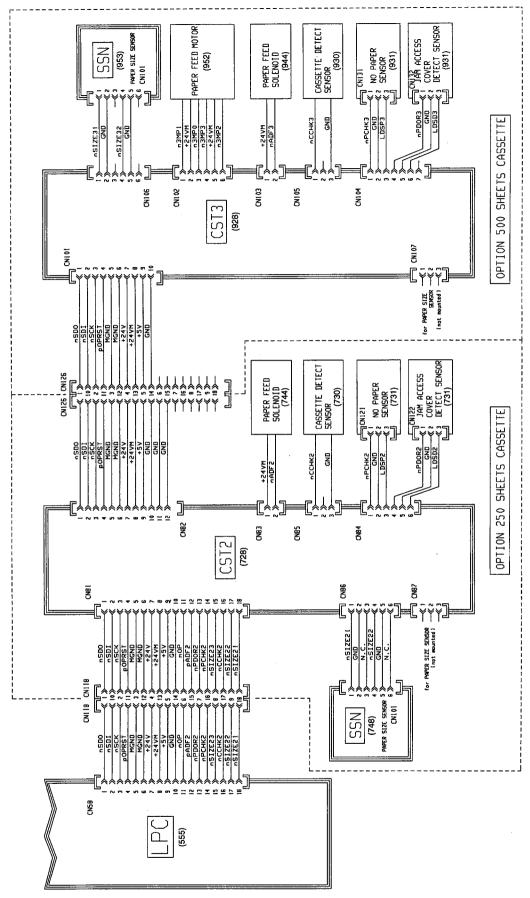
3.7.1 Fax Circuit



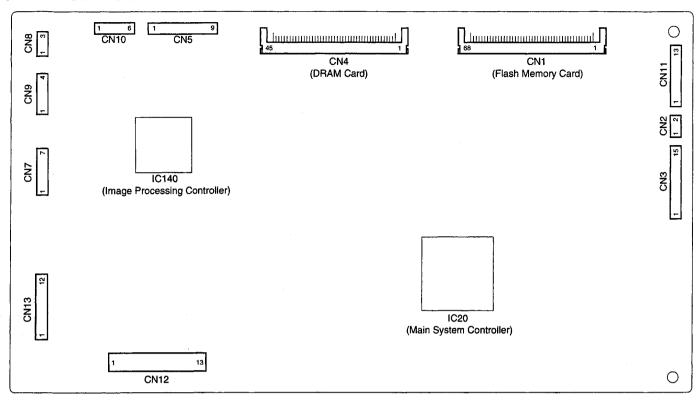
3.7.2 Printer Circuit



3.7.3 Option Cassette Circuit



3.8 FCB PCB



| | | Dectination | Signal Waveform | Function |
|---------|---------------------|-------------------------------|---------------------|---------------------|
| Pin No. | Signal Name GND | Destination Flash Memory Card | Olgilai Waveloi III | Ground |
| | | | 0V | |
| CN1-2 | IOD[3] | Flash Memory Card | 5V(H) 0V(L) | Data Signal |
| CN1-3 | IOD[4] | Flash Memory Card | 5V(H) 0V(L) | Data Signal |
| CN1-4 | IOD[5] | Flash Memory Card | 5V(H) 0V(L) | Data Signal |
| CN1-5 | IOD[6] | Flash Memory Card | 5V(H) 0V(L) | Data Signal |
| CN1-6 | IOD[7] | Flash Memory Card | 5V(H) 0V(L) | Data Signal |
| CN1-7 | +5V(*CE1) | Flash Memory Card | +5V | +5 VDC Power Supply |
| CN1-8 | A[11] | Flash Memory Card | 3V(H) 0V(L) | Address Signal |
| CN1-9 | nRD | Flash Memory Card | 3V(H) | Low Enable |
| CN1-10 | A[12] | Flash Memory Card | 3V(H) 0V(L) | Address Signal |
| CN1-11 | | Flash Memory Card | 3V(H) 0V(L) | Address Signal |
| CN1-12 | A[9] | Flash Memory Card | 3V(H) 0V(L) | Address Signal |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|---------------------|-----------------|----------------------|
| CN1-13 | A[14] | Flash Memory Card | 3V(H) | Address Signal |
| : | | | | |
| | | | 0V(L) | |
| | | | 0 V (L) | |
| CN1-14 | A[15] | Flash Memory Card | 0)/(1)) | Address Signal |
| | | | 3V(H) | |
| | | | | |
| | | | 0V(L) — ———— | |
| CN1-15 | aWD! | Flash Memory Card | | Low Enable |
| CIVI-13 | IIIVALE | Flash Welliory Cald | 3V(H) | LOW Enable |
| | | | | |
| | | | OV(L) | |
| | | | | |
| CN1-16 | pMIRQFR1 | Flash Memory Card | +3V | High Enable |
| | | | | |
| | | | | |
| | | | | |
| CN1-17 | +5V | Flash Memory Card | | +5 VDC Power Supply |
| | | , | +5V | |
| | | | | |
| | | | | |
| | | | | |
| CN1-18 | +12V | Flash Memory Card | +12V | +12 VDC Power Supply |
| | | | | |
| | | | | · |
| | | | | |
| CN1-19 | A[17] | Flash Memory Card | 3V(H) | Address Signal |
| | | | 3V(H) | |
| | | | | |
| | | | 0V(L) | |
| CN1-20 | Δ[16] | Flash Memory Card | | Address Signal |
| 0111 20 | ,,(10) | l lash womeny sara | 3V(H) | , radiooo oigila |
| | | | | |
| | | | 0V(L) | |
| | | | | |
| CN1-21 | A[13] | Flash Memory Card | 3V(H) | Address Signal |
| | | | | |
| | 1 | | 0V(L) | |
| | | |) | |
| CN1-22 | A[8] | Flash Memory Card | 0.440 | Address Signal |
| | | | 3V(H) | _ |
| | | | | |
| | | | 0V(L) | |
| CN1-23 | A(7) | Flash Memory Card | | Address Signal |
| ON 1-23 | V(1) | riash welliory Card | 3V(H) | radias Signal |
| | | | | |
| | | | ov(L) — ———— | |
| | · · | | - | |
| CN1-24 | A[6] | Flash Memory Card | 3V(H) | Address Signal |
| | | | | |
| | | | ov(L) | |
| | | | | |
| | L | | <u> </u> | |

| Pin No. | | Destination | Signal Waveform | Function |
|---------|-------------|---------------------|---|--|
| CN1-25 | A[5] | Flash Memory Card | 3V(H) | Address Signal |
| | | | | |
| | | | 0V(L) | |
| | | | | |
| CN1-26 | A[4] | Flash Memory Card | 0)((1) | Address Signal |
| | | | 3V(H) | |
| | | | | |
| | | | 0V(L) — — | |
| CN1-27 | 121 | Flash Memory Card | | Address Signal |
| 0.41-27 | [A[O] | i lasti wemory card | 3V(H) | nadross olgnar |
| | | | | |
| | | | 0V(L) | |
| 0111 00 | | E | | |
| CN1-28 | A[2] | Flash Memory Card | 3V(H) | Address Signal |
| İ | | | | |
| | | | OV(L) — | |
| | | | . , | |
| CN1-29 | A[1] | Flash Memory Card | 3V(H) | Address Signal |
| | | | | |
| | | | 0V(L) | |
| | | | | |
| CN1-30 | IOD[0] | Flash Memory Card | | Data Signal |
| | | | 5V(H) OV(L) | |
| | | | | |
| | | | 0v(r) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | |
| CN1-31 | IOD[1] | Flash Memory Card | | Data Signal |
| 3111 31 | | lash Monory Cara | 5V(H) | Data Oignai |
| | | | | |
| | | | 0V(L) | · |
| 014.00 | 10010 | | | |
| CN1-32 | IOD[2] | Flash Memory Card | 5V(H) — — — | Data Signal |
| | | | ov(L) | |
| | | | ov(L) | |
| | | | | |
| CN1-33 | nWRH | Flash Memory Card | 3V(H) | Low Enable |
| | | | | |
| | | | 0V(L) | |
| | | | 31(2) | |
| CN1-34 | GND | Flash Memory Card | | Ground |
| İ | | | | |
| | | | | |
| | | | OV | |
| CN1-35 | GND | Flash Memory Card | | Ground |
| | | | | |
| | | | | |
| | | | 0V | |
| CN1-36 | nOPM11 | Floch Momon: Cord | | H. Cond Not Installed 1. Cond had |
| O141-36 | III OF WITE | Flash Memory Card | +5V(H) | H: Card Not Installed L: Card Insa led |
| | | | | |
| | | | 0V(L) | |
| | | · | | |
| | | | | |

| Pin No. | | Destination | Signal Waveform | Function |
|---------|---------|-------------------|-----------------|----------------|
| CN1-37 | IOD[11] | Flash Memory Card | 5V(H) 0V(L) | Data Signal |
| CN1-38 | IOD[12] | Flash Memory Card | 5V(H) OV(L) | Data Signal |
| CN1-39 | IOD[13] | Flash Memory Card | 5V(H) 0V(L) | Data Signal |
| CN1-40 | IOD[14] | Flash Memory Card | 5V(H) 0V(L) | Data Signal |
| CN1-41 | IOD[15] | Flash Memory Card | 5V(H) 0V(L) | Data Signal |
| CN1-42 | nCS23 | Flash Memory Card | 5V(H) | Low Enable |
| CN1-43 | NC . | | | Not Used |
| CN1-44 | RSV | Flash Memory Card | | Not Used |
| CN1-45 | RSV | Flash Memory Card | | Not Used |
| CN1-46 | A[18] | Flash Memory Card | 3V(H) 0V(L) | Address Signal |
| CN1-47 | | Flash Memory Card | 3V(H) 0V(L) | Address Signal |
| CN1-48 | A[20] | Flash Memory Card | 3V(H) 0V(L) | Address Signal |

| Pin No. | | Destination | Signal Waveform | Function |
|-------------|----------|--|-----------------|----------------------|
| CN1-49 | A[21] | Flash Memory Card | 3V(H) | Address Signal |
| | | 1 | | |
| | | | 0V(L) | |
| | | | 0V(L) — — — — | |
| CN1-50 | nCS2 | Flash Memory Card | | Address Signal |
| 0 1 | 11002 | The state of the s | 5V(H) | |
| | | | | |
| | | | OV(L) — | · |
| | | | | |
| CN1-51 | +5V | Flash Memory Card | +5V | +5 VDC Power Supply |
| | | | | |
| | † | ! | | |
| | | | · | |
| CN1-52 | +12V | Flash Memory Card | . 101/ | +12 VDC Power Supply |
| | | | +12V | |
| | | ! | | |
| | | | | |
| CNI1 EQ | GND(A22) | Flash Memory Card | | Ground |
| UN 1-53 | GND(AZZ) | Flash Memory Caru | | Ground |
| | | ! | | |
| | | ! | ov | |
| | | | | |
| CN1-54 | NC | | * | Not Used |
| ~ CN1-56 | | 1 | | |
| CN 1-36 | - | ! | | |
| | | ! | | |
| CN1-57 | PSV | Flash Memory Card | | Not Used |
| 0.0.0. | | ladi momory care | | 100000 |
| | | ! | | |
| | | ! | ! | |
| | | | | |
| CN1-58 | nFROMRST | Flash Memory Card | 3V(H) | Low Enable |
| | | | | |
| | | ! | OV(L) | |
| | | † | 0V(L) | |
| CN1-59 | NC | | | Not Used |
| | | ļ | | |
| | | ļ | 1 | |
| | | 1 | | |
| Chid 60 | | Signal Manager Cond | | |
| CN1-60 | HSV | Flash Memory Card | | Not Used |
| | | | | |
| | | | | |
| | | | | |
| CN1-61 | NC | | | Not Used |
| | | | | |
| | 1 | | | |
| | | | | |
| CNILEO | -ODM14 | Flesh Momony Cord | | Floor Manage Coud ID |
| CN1-62 | NOPINI14 | Flash Memory Card | 5V | Flash Memory Card ID |
| | 1 | | | |
| | ! | | or 0V | |
| | | | | |
| | <u> </u> | | | |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|-------------------|-----------------|----------------------|
| | nOPM13 | Flash Memory Card | 5V or 0V | Flash Memory Card ID |
| | nIOD[8] | Flash Memory Card | 5V(H) 0V(L) | Data Signal |
| CN1-65 | IOD[9] | Flash Memory Card | 5V(H) 0V(L) | Data Signal |
| CN1-66 | IOD[10] | Flash Memory Card | 5V(H) 0V(L) | Data Signal |
| CN1-67 | nOPM12 | Flash Memory Card | or 0V | Flash Memory Card ID |
| CN1-68 | GND | Flash Memory Card | 0V | Ground |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|-------------|-----------------------------|-------------------------------|
| CN2-1 | SPKOT | Speaker | 1V (Max) -1V (Max) | Line Signal, Key Tone, Ringer |
| CN2-2 | GND | Speaker | 0V | Ground |

| Pin No. | | Destination | Signal Waveform | Function |
|---------|-------------|---------------------|-----------------------------|--|
| CN3-1 | nETSW | LCU/LCE PCB CN25-1 | | Not Used |
| | | | · | |
| | | ! | | |
| | | ! | | |
| | | ! | | |
| CN3-2 | +5VP | LCU/LCE PCB CN25-2 | +5V | +5 VDC Power Supply |
| | | | | |
| | | | | |
| | | | | |
| | | | İ | |
| CN3-3 | GND | LCU/LCE PCB CN25-3 | <u> </u> | Ground |
| | | | 1 | |
| | | | 1 | |
| | | | OV | |
| | | | | |
| CN3-4 | +24V | LCU/LCE PCB CN25-4 | .041/ | +24 VDC Power Supply |
|] | | | +24V | |
| | | | 1 | |
| | | | l ' | |
| | | | l ' | |
| CN3-5 | pCMLD | LCU/LCE PCB CN25-5 | | Line Switching Relay Drive |
| | ľ | | +5V (H) FAX Side | |
| | | | | |
| | | 1 | OV (L) | |
| | | | Telephone Side | |
| CN3-6 | pPLSD | LCU/LCE PCB CN25-6 | | Pulse Dial Relay Drive |
| | [| | +5V (H) Make | |
| | | | 1 | |
| | | | OV (L) Break | |
| | | | 1 | |
| CN3-7 | nTSTSW/RMCK | LCU/LCE PCB CN25-7 | [| Not Used |
| | | | 1 | |
| | | | ' | |
| | | | ! | · |
| | | | ! | |
| CN3-8 | nHSDT/RMCS | LCU/LCE PCB CN25-8 | | Handset Off-Hook Detection Signal |
| | | | +5V (H) On Hook | |
| | | | | |
| | | | Off Hook OV (L) | |
| | | | l ' | |
| CN3-9 | nHKOF/RMDT | LCU/LCE PCB CN25-9 | <u> </u> | External Phone Off-Hook Detection Signal |
| | | | +5V (H) On Hook | (Phone Line must be connected.) |
| | | | , | |
| | | | Off Hook OV (L) | |
| | | | | |
| CN3-10 | nCTON | LCU/LCE PCB CN25-10 | | Ring Detection Signal |
| | | | | , , , , , , , , , , , , , , , , , , , |
| | | | H= Standby Mode, L= Ring in | |
| | | | | |
| | | | 1 | |
| CN3-11 | HYBSR | LCU/LCE PCB CN25-11 | 1 | Line Transformer Input Signal |
| | | | ; | |
| | | | | |
| | | | 1 | |
| | | | i | |
| CN3-12 | GND | LCU/LCE PCB CN25-12 | | Ground |
| | | | , | |
| | | | , | · |
| | | | ov | |
| | | | | |
| | | 1 | | |

| Pin No. | . • | Destination | Signal Waveform | Function |
|---------|-------|---------------------|-----------------|----------|
| CN3-13 | HYSIG | LCU/LCE PCB CN25-13 | | Not Used |
| | | | | |
| İ | | | | |
| | | | | · |
| CN3-14 | pTCKD | LCU/LCE PCB CN25-14 | | Not Used |
| | | | | |
| · | | | | |
| | | | | |
| CN3-15 | pEAKD | LCU/LCE PCB CN25-15 | | Not Used |
| | | | | |
| | | | | |
| | | | | |
| | L | 1 | | |

| Pin No. | | Destination | Signal Waveform | Function |
|---------|----------|-------------|-----------------|--|
| CN4-1 | GND | DRAM Card | | Ground |
| | | | | · |
| | | | 0V | |
| CN4-2 | CND | DRAM Card | | Ground |
| CIN4-2 | GND | DRAW Card | | Ground |
| | | | | <u>.</u> ! |
| | | | OV | · |
| CN4-3 | +5V | DRAM Card | +5V | +5 VDC Power Supply |
| | | | +5٧ | |
| | | | | |
| | | | | |
| CN4-4 | CID0 | DRAM Card | +5V(H) | H: Card Not Installed L: Card Installed |
| | | | | |
| | | | OV(L) | |
| CN4-5 | 5VIMD[0] | DRAM Card | | Data Signal |
| 0114 0 | | DIAW Gard | 5V(H) | Data Signal |
| | | | 0.41. | |
| | | | 0V(L) | |
| CN4-6 | 5VIMD[1] | DRAM Card | 5V(H) | Data Signal |
| | | | | |
| | | | 0V(L) | |
| 0117 | | | | |
| CN4-7 | 5VIMD[2] | DRAM Card | 5V(H) | Data Signal |
| | | | | |
| | | | 0V(L) — | · |
| CN4-8 | 5VIMD[3] | DRAM Card | 5\//LI\ | Data Signal |
| | | | 5V(H) | |
| | | | 0V(L) | |
| | | | | |
| CN4-9 | 5VIMD[4] | DRAM Card | 5V(H) | Data Signal |
| | | | | |
| | | | 0V(L) — | |
| CN4-10 | 5VIMD[5] | DRAM Card | | Data Signal |
| | [5] | | 5V(H) | - January Company Comp |
| | | | 0)(1) | |
| | | | 0V(L) — | |
| CN4-11 | 5VIMD[6] | DRAM Card | 5V(H) | Data Signal |
| | | | | |
| | | | 0V(L) | |
| CNA 10 | EVIMDIZI | IDBAM Cond | | |
| UN4-12 | 5VIMD[7] | DRAM Card | 5V(H) | Data Signal |
| | | | | |
| | | | oV(L) — | |
| | | L | | |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|--------------|---------------|-----------------|--|
| CN4-13 | 5VIMD[8] | DRAM Card | 5V(H) [| Data Signal |
| | | | | |
| | | | 0V(L) | |
| | | | | |
| CN4-14 | 5VIMD[9] | DRAM Card | 5V(H) | Data Signal |
| | | | | |
| | | | 0V(L) | |
| | | | | |
| CN4-15 | 5VIMD[10] | DRAM Card | 5V(H) | Data Signal |
| | | | | |
| | | | ov(L) — | |
| 0114.40 | | | | |
| CN4-16 | 5VIMD[11] | DRAM Card | 5V(H) | Data Signal |
| | | | | |
| | | | 0V(L) | |
| CN4 17 | 5VIMD[12] | DRAM Card | | Data Signal |
| CIN4-17 | 5V MID[12] | DRAW Cald | 5V(H) | Data Signal |
| | | | 1 | |
| | | | 0V(L) | |
| CN4-18 | 5VIMD[13] | DRAM Card | | Data Signal |
| | | | 5V(H) | |
| | | | 2/4) | |
| | | | 0V(L) | |
| CN4-19 | 5VIMD[14] | DRAM Card | 5V(H) | Data Signal |
| : - | | | 34(1) | |
| | | | 0V(L) | · |
| | ÷ | | | |
| CN4-20 | 5VIMD[15] | DRAM Card | 5V(H) | Data Signal |
| | | | | |
| | | | 0V(L) — | |
| | | | | |
| CN4-21 | IMA[0] | DRAM Card | 3V(H) | Address Signal |
| | | | | |
| | | | 0V(L) | |
| CN4-22 | MAACA1 | DRAM Card | | Address Cienal |
| CN4-22 | IMA[I] | DHAM Card | 3V(H) | Address Signal |
| | | | | |
| | | | 0V(L) | |
| CN4-23 | COL | DRAM Card | | Address Signal |
| 5.17.20 | U44/-/[-] | D. Milli Gard | 3V(H) | , rous out of the second of th |
| | | | | |
| | | | 0V(L) — | |
| CN4-24 | IMAI31 | DRAM Card | | Address Signal |
| | | | 3V(H) | |
| | | | 244 | |
| | | | 0V(L) | |
| | | 1 | | |

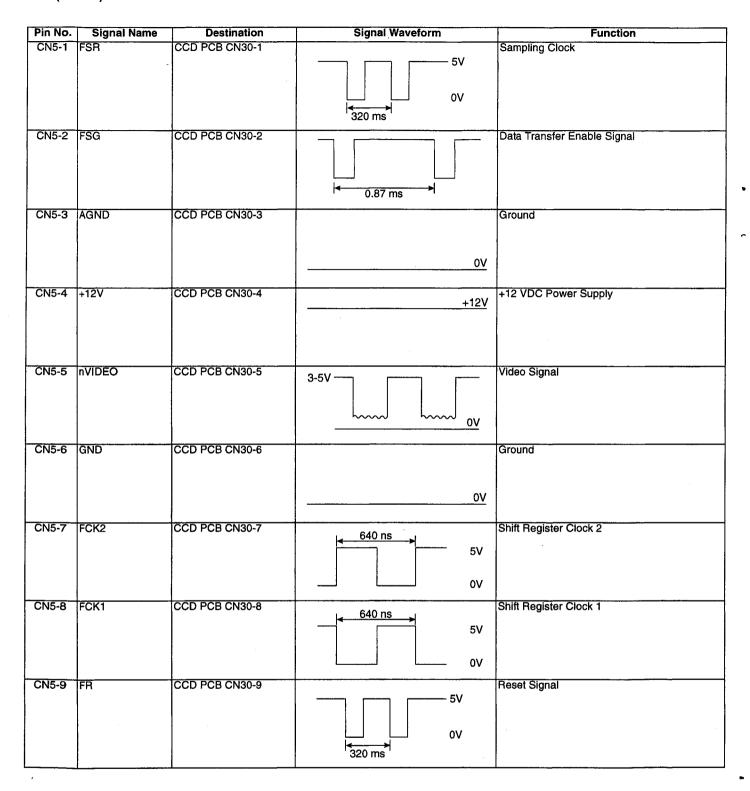
| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|----------|-------------|---------------|-----------------|----------------|
| CN4-25 | IMA[4] | DRAM Card | 3V(H) | Address Signal |
| | | | | |
| | | | 0.44. | |
| | | | 0V(L) — | |
| CN4-26 | INANIET | DRAM Card | | Address Signal |
| 0144-20 | IIIVIA[5] | DHAW Cald | 3V(H) | Address Signal |
| | | | | |
| | | | 0V(L) — | |
| | | | | |
| CN4-27 | IMA[6] | DRAM Card | 3V(H) | Address Signal |
| | | | 3V(H) | |
| | | | | |
| | | | 0V(L) | |
| 3,11 | | | | |
| CN4-28 | IMA[7] | DRAM Card | 3V(H) | Address Signal |
| | | | | |
| | | | 0V(L) | |
| | | | 0 V (L) | |
| CN4-29 | IMAI81 | DRAM Card | | Address Signal |
| | | | 3V(H) | |
| | | | | |
| | | | 0V(L) — | |
| | | | | |
| CN4-30 | IMA[9] | DRAM Card | 3V(H) [] | Address Signal |
| | | | 31(1.) | |
| | | | | |
| | | | OV(L) — | |
| CN4-31 | INC | | | Not Used |
| 0114-51 | | | | Notosed |
| | | | | |
| | | | | |
| | | | | |
| CN4-32 | nDC16M | DRAM Card | | DRAM Card ID |
| | | | 5V(H) | |
| | | | or | · |
| | | | 0V(L) | |
| CN14 00 | OID4 | 550M 0I | | |
| CN4-33 | CIDI | DRAM Card | 5V(H) | DRAM Card ID |
| | | | or | |
| | | | | |
| | | | 0V(L) | |
| CN4-34 | CID2 | DRAM Card | | DRAM Card ID |
| | | • | 5V(H) | |
| | | | or | |
| | | | OV(L) | |
| | | | | |
| CN4-35 | nICAS | DRAM Card | | Low Enable |
| | | | 3V(H) | |
| | | | | |
| | | | 0V(L) | |
| CN4-36 | nICAS | DRAM Card | | Low Enable |
| V:17-00 | | DI IAIVI CAIU | 3V(H) | Low Enable |
| | | | ' | |
| | | | OV(L) | |
| | | | UV(L) | |
| | | <u> </u> | <u> </u> | |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|-------------|-----------------|---------------------|
| CN4-37 | nIRAS[5] | DRAM Card | 3V(H) | Low Enable |
| | | | OV(L) | , |
| CN4-38 | nIRAS[4] | DRAM Card | 3V(H) | Low Enable |
| | | | OV(L) | |
| CN4-39 | nIRAS[3] | DRAM Card | 3V(H) | Low Enable |
| | | | OV(L) | |
| CN4-40 | niRAS[2] | DRAM Card | 3V(H) | Low Enable |
| | | | OV(L) | |
| CN4-41 | nIMWR | DRAM Card | 3V(H) | Low Enable |
| | | | OV(L) | |
| CN4-42 | nIMRD | DRAM Card | 3V(H) | Low Enable |
| | | · | OV(L) | |
| CN4-43 | +5V | DRAM Card | <u>+5V</u> | +5 VDC Power Supply |
| | · | | | |
| CN4-44 | GND | DRAM Card | | Ground |
| | | | <u>ov</u> | |
| CN4-45 | GND | DRAM Card | | Ground |
| | | | 0V | |

CN5 (UF-885)

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|----------------|--|--|
| CN5-1 | | CCD PCB CN30-1 | 5V 0V < 640 ns → | Reset Signal |
| CN5-2 | FCK1 | CCD PCB CN30-2 | 5V 0V | Shift Register Clock 1 |
| CN5-3 | | CCD PCB CN30-3 | 5V 0V | Shift Register Clock 2 |
| CN5-4 | | CCD PCB CN30-4 | 2.5 ms | Data Transfer Enable Signal |
| CN5-5 | AGND | CCD PCB CN30-5 | OV | Ground |
| CN5-6 | +5V | CCD PCB CN30-6 | +5V | +5 VDC Power Supply |
| CN5-7 | | CCD PCB CN30-7 | | Compensation Signal (Analog Signal) |
| CN5-8 | os | CCD PCB CN30-8 | 3-5V 0V | Video Signal |

CN5 (UF-895)



| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|----------------|---|--|
| CN7-1 | nBPNT | SNS PCB CN31-1 | +5V(H) No Document | Read Point Detection |
| | | | Document 0V(L) | |
| CN7-2 | NAPNT | SNS PCB CN31-2 | +5V(H) No Document Document 0V(L) | ADF Document Detection |
| CN7-3 | +5VP | SNS PCB CN31-3 | +1.2V | +5 VDC Power Supply (Connector Unplugged) +1.2 VDC (Connector Plugged In) |
| CN7-4 | nSDOOR | SNS PCB CN31-4 | +5V(H) <u>Door Ope</u> n <u>Door Closed</u> OV(L) | Tx Door Detection |
| CN7-5 | nB4SN | SNS PCB CN31-5 | +5V(H) No Document B4 Width Document 0V(L) | B4 Width Document Detection |
| CN7-6 | GND | SNS PCB CN31-6 | OV | Ground |
| CN7-7 | +12V | SNS PCB CN31-7 | +3.5V | +12 VDC Power Supply (Connector Unplugged) +3.5 VDC (Connector Plugged In) |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|-------------|-----------------|----------------------|
| CN8-1 | +24V | Stamp | +24V | +24 VDC Power Supply |
| CN8-2 | NC | | | Not Used |
| CN8-3 | nSTAMP | Stamp | Stamp Off +24V | Stamp Driver Signal |
| | | | Stamp On 0V | |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|---------------------------|---------------|--|---|
| CN9-1 | +24V | LED Array 1-1 | +24V | +24 VDC Power Supply |
| CN9-2 | +24V (For UF-895 only) | LED Array 2-1 | +24V | +24 VDC Power Supply |
| CN9-3 | LEDD (For UF-895 only) | LED Array 2-2 | LED Off 24V (H) LED On 0V (L) | LED Lamp +24 VDC (Connector Unplugged) +12.5 VDC (Connector Plugged In) |
| CN9-4 | LEDD | LED Array 1-2 | | LED Lamp +24 VDC (Connector Unplugged) +12.5 VDC (Connector Plugged In) |

| Pin No. | | Destination | Signal Waveform | Function |
|---------|------|----------------|-----------------|----------------------|
| CN10-1 | рТМА | Transmit Motor | +24V 0V | Stepping Signal |
| CN10-2 | +24V | Transmit Motor | +24V | +24 VDC Power Supply |
| CN10-3 | nTMA | Transmit Motor | +24V 0V | Stepping Signal |
| CN10-4 | рТМВ | Transmit Motor | +24V 0V | Stepping Signal |
| CN10-5 | +24V | Transmit Motor | +24V | +24 VDC Power Supply |
| CN10-6 | nTMB | Transmit Motor | +24V 0V | Stepping Signal |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|-------------|-------------|-----------------|-----------------|----------------------------------|
| CN11-1 | +24V | PNL PCB CN40-1 | | Not Used |
| | | | | |
| CN11-2 | +5VP | PNL PCB CN40-2 | +5V | +5 VDC Power Supply |
| | | | | |
| CN11-3 | +5V | PNL PCB CN40-3 | +5V | +5 VDC Power Supply |
| | | | | |
| CN11-4 | GND | PNL PCB CN40-4 | | Ground |
| | | | 0V | |
| CN11-5 | GND | PNL PCB CN40-5 | | Ground |
| | | | ov | |
| CN11-6 | PPNLCK | PNL PCB CN40-6 | 5V ov | Serial Data Transfer Clock |
| CN11-7 | PNLRXD | PNL PCB CN40-7 | 5V | Reception Data |
| | | | ov | |
| CN11-8 | PNLTXD | PNL PCB CN40-8 | 5V ov | Transmission Data |
| CN11-9 | pPNLRST | PNL PCB CN40-9 | | Panel Reset Signal (Reset by 0V) |
| | | | 5V 0V | |
| CN11-10 | nWAKUP | PNL PCB CN40-10 | | Power Saver Reset Signal |
| | | | 5V 0V | |
| CN11-11 | pBZCK | PNL PCB CN40-11 | 7 F7 F7 F5V | Buzzer Clock |
| | | | ov | |
| CN11-12 | nPSAVÉ | PNL PCB CN40-12 | Standby 5V | Power Saver Enable |
| | | | Power Saver 0V | |
| | L | .1 | <u></u> | |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|-----------------|-----------------|-----------------|
| CN11-13 | BATVL | PNL PCB CN40-13 | | Battery Voltage |
| | | | | |
| | | | 0V ∼ +3V | |
| | | | | |
| | | | | |

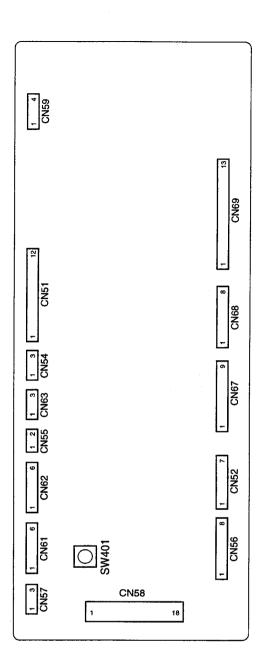
| Pin No. | | Destination | Signal Waveform | Function |
|---------|---------------------------------------|-----------------|----------------------------------|--|
| CN12-1 | nBSTA | LPC PCB CN69-1 | +5V(H) | Serial Interface Data Signal |
| | 1 | | OV(L) | |
| CN12-2 | nBSCLK | LPC PCB CN69-2 | | Serial Interface Synchronization Clock |
| | , , , , , , , , , , , , , , , , , , , | | +5V(H) ov(L) | Solida Interiado Synonionization Glock |
| CN12-3 | nBVSYNC | LPC PCB CN69-3 | +5V(H) | V-SYNC for Video Signal |
| | | | OV(L) | |
| CN12-4 | nBSBSY | LPC PCB CN69-4 | +5V(H) | Serial Interface Enable Signal |
| | | | OV(L) | |
| CN12-5 | nBCMD | LPC PCB CN69-5 | +5V(H) 0V(L) | Serial Interface Command Data Signal |
| CN12-6 | nBCBSY | LPC PCB CN69-6 | +5V(H) 0V(L) | Serial Interface Enable Signal |
| CN12-7 | nBPRNT | LPC PCB CN69-7 | +5V(H) (Standby) OV(L) (Active) | Print Request Signal |
| CN12-8 | nBPRDY | LPC PCB CN69-8 | +5V(H) | Printer Ready Signal |
| | | | | |
| CN12-9 | NBHSYNC | LPC PCB CN69-9 | +5V(H) 0V(L) | H-SYNC for Video Signal |
| CN12-10 | GND | LPC PCB CN69-10 | | Ground |
| | | | 0V | |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|-----------------|---------------------------|-------------------------------|
| CN12-11 | nVDO | LPC PCB CN69-11 | +5V(H) White 0V(L) Black | Laser Drive Print Data Signal |
| CN12-12 | GND | LPC PCB CN69-12 | OV | Ground |
| CN12-13 | PBPRST | LPC PCB CN69-13 | +5V(H) OV(L) | Printer External Reset Signal |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|----------|-------------|------------------|-----------------|---|
| CN13-1 | +24V | POW PCB CN32-1 | +24V | +24 VDC Power Supply |
| | | | | · |
| | | | | |
| | | | | |
| CN13-2 | +24V | POW PCB CN32-2 | .041 | +24 VDC Power Supply |
| | | · | +24V | |
| | | | | |
| | | | | |
| CN13-3 | MGND | POW PCB CN32-3 | | Ground |
| | Maris | 011 05 01102 0 | | 3.03.10 |
| | | | | |
| | | | 0V | |
| | | | | |
| CN13-4 | MGND | POW PCB CN32-4 | | Ground |
| | | | | |
| | | | 0V | |
| | | | | |
| CN13-5 | +5V | POW PCB CN32-5 | +5V | +5 VDC Power Supply |
| | | | | |
| | | | | |
| | | | | |
| CN13-6 | GND | POW PCB CN32-6 | | Ground |
| | | | | |
| | | | | |
| | | | 0V | |
| 0140 = | 301 | DOW DOD ONGS 7 | | 10.120 |
| CN13-7 | -12V | POW PCB CN32-7 | | -12 VDC Power Supply |
| | | | | |
| | | | -12V | |
| | | | | |
| CN13-8 | AGND | POW PCB CN32-8 | | Ground |
| | | | | |
| | | | 0V | |
| | | | | |
| CN13-9 | +5V | POW PCB CN32-9 | . 57 | +5 VDC Power Supply |
| | | | +5V | |
| | | | | |
| | | | | |
| CN13-10 | GND | POW PCB CN32-10 | | Ground |
| O1410-10 | GIVE | OVV OB ONSZ-10 | | anound . |
| | | | | |
| | | | ov | |
| | | | | |
| CN13-11 | +5VP | POW PCB CN32-11 | +5V | +5 VDC Pilot Power Supply, that provides |
| | | | | power to the active components during the Sleep Mode. |
| | | | | |
| | | | | |
| | L | <u> </u> | | <u> </u> |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|-----------------|-----------------|--------------------|
| CN13-12 | nLPOW | POW PCB CN32-12 | | Power Saver Enable |
| | | | Standby 2,4 | <u>/</u> |
| , | | | Max | |
| | | | Power Saver 0V | |
| | | | | |

3.9 LPC PCB



| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|----------------|----------------------------|---------------------------|
| CN67-1 | +24V | POW PCB CN33-1 | +24V | +24 VDC Power Supply |
| CN67-2 | +24V | POW PCB CN33-2 | +24V | +24 VDC Power Supply |
| CN67-3 | MGND | POW PCB CN33-3 | | Ground |
| CN67-4 | MONE | POW PCB CN33-4 | 0V | Ground |
| CN67-4 | MGND | POW PCB CN33-4 | 0V | Ground |
| CN67-5 | +5V | POW PCB CN33-5 | +5V | +5 VDC Power Supply |
| CN67-6 | GND | POW PCB CN33-6 | 0V | Ground |
| CN67-7 | -12V | POW PCB CN33-7 | -12V | -12V VDC Power Supply |
| CN67-8 | AGND | POW PCB CN33-8 | 0V | Ground |
| CN67-9 | SSR | POW PCB CN33-9 | +24V (H) LAMP OFF OV (L) | Fuser Lamp Control Signal |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|-------------|-----------------|---|
| CN51-1 | nldctl | LSU P101-1 | | Laser Power Sample/Hold Timing Si gnal 1 ms (16 dot) 0.652 ms (600 dpi) |
| CN51-2 | nHSYNC | LSU P101-2 | | H-SYNC Video Signal 1 ms (16 dot) 0.652 ms (600 dpi) |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|-------------|--------------------------|--|
| CN51-3 | L+5V | LSU P101-3 | +5V (H) PRINTING OV (L) | +5V Power Supply for Laser Drive Circuit |
| CN51-4 | GND | LSU P101-4 | ov | Ground |
| CN51-5 | nLDON | LSU P101-5 | +5V (H) OFF ON 0V (L) | Laser Control Signal |
| CN51-6 | nVIDEO | LSU P101-6 | | Video Data L=Black, H=White |
| CN51-7 | GND | LSU P101-7 | ov | Ground |
| CN51-8 | пРМСК | LSU CN1-1 | +5V(H) oV(L) | Polygon Motor Clock 3.3 KHz (16 dot) 5.1 KHz (600 dpi) |
| CN51-9 | nPMRY | LSU CN1-2 | +5V (H) Not Ready OV (L) | Polygon Motor Ready Signal |
| CN51-10 | пРМОМ | LSU CN1-3 | +5V (H) OFF ON OV (L) | Polygon Motor Control Signal |
| CN51-11 | MGND | LSU CN1-4 | | Frame Ground |
| CN51-12 | +24VM | LSU CN1-5 | +24V (H) | +24 VDC Power Supply |

| Pin No. | | Destination | Signal Waveform | Function |
|---------|-------|-------------|-----------------|----------------------------------|
| CN52-1 | +24VM | HVPS CN39-1 | +24V (H) | +24 VDC Power Supply |
| | | | OV (L) | |
| CN52-2 | nCR0 | HVPS CN39-2 | +24V (H) | Charge Control AC Output |
| | | | 0V (L) | |
| CN52-3 | nCR1 | HVPS CN39-3 | +24V (H) | Charge Control DC Output |
| | | | 0V (L) | |
| CN52-4 | nDR0 | HVPS CN39-4 | +24V (H) | Development Control AC+DC Output |
| | | | OV (L) | |
| CN52-5 | nTR0 | LSU P101-5 | +24V (H) | Transfer Control Cleaning Output |
| | | | 0V (L) | |
| CN52-6 | nTR1 | LSU P101-6 | +24V (H) | Transfer Control Transfer Output |
| | | | 0V (L) | |
| CN52-7 | MGND | LSU P101-7 | | Ground |
| | | | 0V | |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|-------------|---|--------------------|
| CN54-1 | +24VDR | Fan | +24 VDC High Speed Rotation Approx. +18 VDC Low Speed Rotation | Fan Control Signal |
| CN54-2 | nFNRDT | Fan | +5V (H) Not Ready OV (L) | Fan Ready Signal |
| CN54-3 | MGND | Fan | 0V | Ground |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|---------------------|--------------------|---|
| CN55-1 | +24VM | Paper Feed Solenoid | +24V (H) | +24 VDC Power Supply |
| CN55-2 | nADF1 | Paper Feed Solenoid | +24V (H) OV (L) ON | Paper Feed Roller Solenoid Control Signal |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|------------------------------|-----------------------------|---------------------------------------|
| CN56-1 | | Thermistor CN115-1 | +5V | +5 VDC Power Supply |
| CN56-2 | THERM | Thermistor CN115-2 | Analog Signal | Fuser Thermistor Voltage Level signal |
| CN56-3 | nESEN | Paper Exit Sensor CN112-1 | +5V (H) Detect Paper 0V (L) | Paper Exit Sensor Detection Signal |
| CN56-4 | GND | Paper Exit Sensor CN112-2 | . OV | Ground |
| CN56-5 | LDSE | Paper Exit Sensor CN112-3 | Approx. +2 VDC | Paper Exit Sensor LED Drive Current |
| CN56-6 | nPCHK1 | No Paper Sensor CN111- 1 | +5V (H) Paper 0V (L) | No Paper Detection Signal |
| CN56-7 | GND | No Paper Sensor CN111- 2 | | Ground |
| CN56-8 | LDSP1 | No Paper Sensor CN111- | Approx. +2 VDC | No Paper Sensor LED Drive Current |
| | | | | |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|------------------------|---------------------|------------------------------|
| CN57-1 | nCCHK1 | Cassette Detect Sensor | +5V (H) No Cassette | No Cassette Detection Signal |
| CN57-2 | NC | | | Not connected |
| CN57-3 | GND | Cassette Detect Sensor | 0V | Ground |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|-------------|-----------------|---------------------------------------|
| CN58-1 | | CTS2 CN81-1 | +5V(H) | 500 Sheets Cassette Interface TX DATA |
| | | | OV(L) | |
| CN58-2 | nSDI | CTS2 CN81-2 | +5V(H) | 500 Sheets Cassette Interface RX DATA |
| | | | OV(L) | |
| CN58-3 | nSCK | CTS2 CN81-3 | +5V(H) | 500 Sheets Cassette Interface CLOCK |
| | | | OV(L) | |
| CN58-4 | pOPRST | CTS2 CN81-4 | +5V(H) | 500 Sheets Cassette Interface Reset |
| | | | OV(L) | |
| CN58-5 | MGND | CTS2 CN81-5 | | Ground |
| | | | ov | |
| CN58-6 | MGND | CTS2 CN81-6 | | Ground |
| | | | ov | |
| CN58-7 | +24 | CTS2 CN81-7 | +24V | +24 VDC Power Supply |
| | | | | |
| CN58-8 | +24VM | CTS2 CN81-8 | +24V (H) | +24 VDC Power Supply |
| | | | 0V (L) | |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|-------------|-------------|--------------|------------------------------|---|
| CN58-9 | | CTS2 CN81-9 | +5V | +5 VDC Power Supply |
| | | | | |
| CN58-10 | GND | CTS2 CN81-10 | | Ground |
| | | | | |
| | | | | |
| CN58-11 | nOP | CTS2 CN81-11 | +5V (H) | 250 Sheets Feeder Unit Detection Signal |
| | | | No Feeder Unit | |
| CN58-12 | pADF2 | CTS2 CN81-12 | +5V (H) ON | Feed Roller Drive Clutch Control Signal (250 sheets Cassette) |
| | | | OV (L) | |
| CN58-13 | nPDOR2 | CTS2 CN81-13 | , 5V /H) | Jam Cover Sensor Detection Signal |
| | | · | +5V (H) Door Closed 0V (L) | |
| CN58-14 | - DOLIKO | CTS2 CN81-14 | 0V (L) | No Dance Datastics Circust (OFO abouts Occ |
| CN36-14 | INPORK2 | C132 CN61-14 | +5V (H) | No Paper Detection Signal (250 sheets Cassette) |
| | | | No Paper 0V (L) | |
| CN58-15 | nSIZE23 | CTS2 CN81-15 | , | Not Used |
| | | | | |
| CN58-16 | nCCHK2 | CTS2 CN81-16 | +5V (H) | No Paper Detection Signal (250 sheets Cassette) |
| | | | No Cassette | |
| CN58-17 | nCIZI-00 | CTS2 CN81-17 | OV (L) | Same as CN61 |
| CIN36-17 | 1131222 | 0132 ON01-17 | | Same as GNO1 |
| | | | | |
| CN58-18 | nSIZE21 | CTS2 CN81-18 | | Same as CN61 |
| | | | | |
| | | | | |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|---------------|-----------------------|----------------------|
| CN59-1 | nMMP3 | Printer Motor | +5V (H) Rotate 0V (L) | Rotate Signal |
| CN59-2 | nMMP2 | Printer Motor | +5V (H) Ready 0V (L) | Motor Ready∕Signal |
| CN59-3 | +24VM | Printer Motor | +24V (H) 0V (L) | +24 VDC Power Supply |
| CN59-4 | MGND | Printer Motor | 0V | Ground |

| Pin No. | | Destination | · Signal Waveform | Function |
|---------|---------|-------------|-------------------|-----------------|
| CN61-1 | nSIZE11 | SSN CN101-1 | +5V (H) | nSiZE11 L H L H |
| CN61-2 | GND | SSN 101-2 | 0V | A4 |
| CN61-3 | NC | | | LTR |
| CN61-4 | nSIZE12 | SSN 101-4 | +5V (H) | |
| CN61-5 | GND | SSN 101-5 | 0V | |
| CN61-6 | NC | | | |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|-----------------------|-----------------------------|---------------------------------|
| CN62-1 | GND | Toner Sensor CN114-1 | | Ground |
| | | | 0V | |
| CN62-2 | TONER | Toner Sensor CN114-2 | Analog Signal | Remaining Toner Level Signal |
| CN62-3 | +5V | Toner Sensor CN114-3 | +5V | +5 VDC Power Supply |
| CN62-4 | nrsen | Timing Sensor CN113-1 | +5V (H) Detect Paper 0V (L) | Timing Sensor Detection Signal |
| CN62-5 | GND | Timing Sensor CN113-2 | · 0V | Ground |
| CN62-6 | LDSR | Toner Sensor CN113-3 | Approx. +2 VDC | Timing Sensor LED Drive Current |

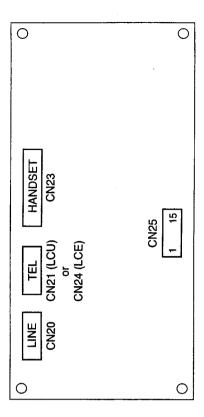
CN63

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|----------------|---|--------------------------------|
| CN63-1 | +24V | ILS PCB CN73-1 | +24V | +24 VDC Power Supply |
| CN63-2 | NC | | | Not Connected |
| CN63-3 | +24VD | ILS PCB CN73-3 | +24V (H) Cover Open 0V (L) Cover Closed | Printer Cover Detection Signal |

CN69

Refer to FCB PCB CN12.

3.10 LCU/LCE PCB



| Pin No. | | Destination | Signal Waveform | Function |
|---------|-------|----------------|-----------------|-------------|
| CN20-1 | NC | | | Not Used |
| | | | | |
| | ! | | | |
| | | | | |
| | | | | |
| CN20-2 | NC | | | Not Used |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| CN20-3 | L2(T) | Telephone Line | | Line Signal |
| | | | | |
| ļ | ļ | | | |
| | | | | · |
| | , | | | |
| CN20-4 | L1(R) | Telephone Line | | Line Signal |
| • | | | , | |
| | | | | |
| | | | | |
| | | | | |

CN21

| NC . | | | Not Used |
|----------|--------------------|----------------------|--|
| | | | |
| NC | | | Not Used |
| 1 | External Telephone | | Line Signal for the External Telephone |
| <u>-</u> | External Telephone | | Line Signal for the External Telephone |
| | · 1 | 1 External Telephone | 1 External Telephone |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|----------------|---------------------------------|--------------------|
| CN23-1 | Al | SRU PCB CN90-6 | +5V (H) Off Hook On Hook 0V (L) | Switch Hook Signal |
| CN23-2 | NC | SRU PCB CN90-1 | | Not Connected |

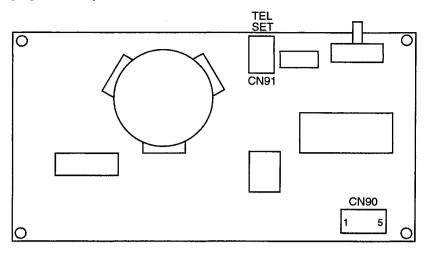
| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|----------------|-----------------|---------------------------------|
| CN23-3 | HLIN1 | SRU PCB CN90-2 | | Line Signal for the Fax Handset |
| CN23-4 | HLIN2 | SRU PCB CN90-3 | | Line Signal for the Fax Handset |
| CN23-5 | NC | SRU PCB CN90-7 | | Not Connected |
| CN23-6 | AIS | SRU PCB CN90-5 | ov | Ground |
| | | | | |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|--------------------|---------------------------------------|--|
| CN24-1 | | External Telephone | | Not Connected |
| CN24-2 | T2 | External Telephone | | Line Signal for the External Telephone |
| CN24-3 | NC | External Telephone | · | Not Connected |
| CN24-4 | NC | External Telephone | | Not Connected |
| CN24-5 | T1 | External Telephone | | Line Signal for the External Telephone |
| CN24-6 | NC | External Telephone | · · · · · · · · · · · · · · · · · · · | Not Connected |
| | | | | |

CN25

Refer to FCB PCB CN3.

3.11 SRU PCB (Optional)

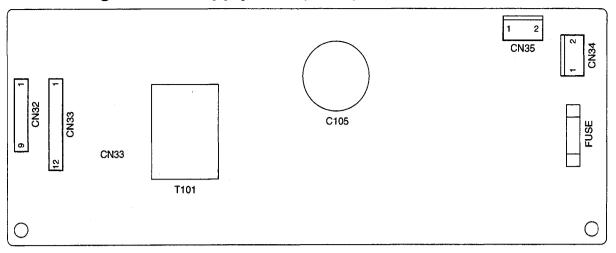


| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|----------------------|-----------------|--------------------|
| CN91-1 | NC | | | Not Connected |
| CN91-2 | MIC (+) | Telephone Handset CN | | Handset Microphone |
| CN91-3 | RCV (+) | Telephone Handset CN | | Handset Receiver |
| CN91-4 | RCV (-) | Telephone Handset CN | | Handset Receiver |
| CN91-5 | MIC (-) | Telephone Handset CN | | Handset Microphone |
| CN91-6 | TGND | | | Ground |
| | | | 0V | |

CN90

Refer to LCU PCB CN23.

3.12 Low Voltage Power Supply PCB (POW)

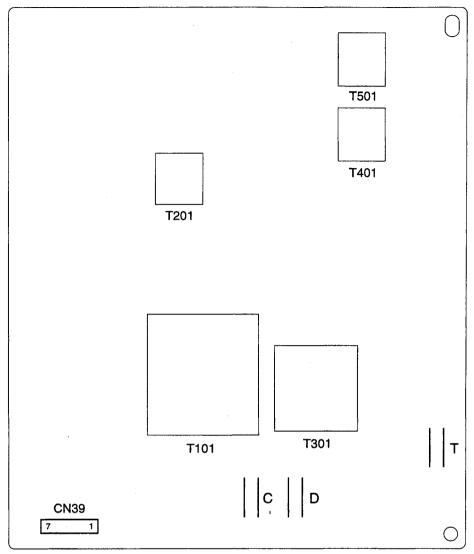


CN32
Refer to FCB PCB CN13.
CN33
Refer to LPC PCB CN1.
CN34

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|-------------|-----------------|--------------------------|
| CN34-1 | LIVE | ACI PCB | | AC Input (Black-Live) |
| | | | | |
| CN34-2 | NEUTRAL | ACI PCB | | AC Input (White-Neutral) |
| | | | | |
| | | | | |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|------------------|-----------------|-------------------------------|
| CN35-1 | HEAT 2 | Fuser Unit CN116 | | Fuser Lamp AC (White-Neutral) |
| | | | | |
| CN35-2 | HEAT 1 | Fuser Unit CN116 | | Fuser Lamp AC (Black-Live) |
| | | | | |
| | | | | |

3.13 High Voltage Power Supply PCB (HVPS)



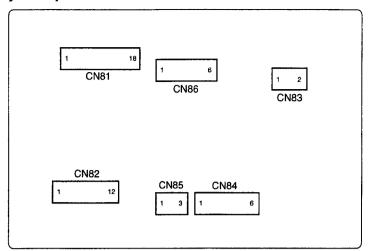
High Voltage Output

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|----------------------|---|--|
| Т | Transfer | Bias Transfer Roller | +3 μA 0V -800V | (1) Transfer Current: (+3 uA) (2) Cleaning Voltage: (-800 V) |
| С | Charge | Bias Charge Roller | -650 V - | Charge Current: 450 μA (AC 400 Hz Sine Wave) & DC Charge Voltage |
| D | Development | Development Roller | 0V -500V \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | Development Voltage (AC 1.7 kHz Square Wave) & DC Voltage |

CN39

Refer to LPC PCB CN52.

3.14 CST2 PCB (Option)



| Pin No. | | Destination | Signal Waveform | Function |
|---------|--------|-------------------|-----------------|---------------------------------------|
| CN82-1 | | CST3PCB CN101-1 | | 500 Sheet Cassette Interface TX Data |
| | | | +5V(H) | |
| | | | OV(L) | |
| | | | | |
| CN82-2 | nSDI | CST3PCB CN101-2 | | 500 Sheet Cassette Interface RX Data |
| | | | +5V(H) | See Shoot Subsolic Intelluce 117 Bala |
| | | | | |
| | j | | \ \ OV(L) | |
| | | | | |
| CN82-3 | nSCK | CST3PCB CN101-3 | +5V(H) | 500 Sheet Cassette Interface clock |
| | | | +5V(H) | |
| | | | OV(L) | |
| | · | | | |
| CN82-4 | pOPRST | CST3PCB CN101-4 | | 500 Sheet Cassette Reset Signal |
| | | | +5V(H) | |
| | | | | |
| | | | OV(L) | |
| | | | | · |
| CN82-5 | MGND | CST3PCB CN101-5 | | Ground |
| | | | | |
| | | | 01/ | |
| | | | 0V | |
| CN82-6 | MGND | CST3PCB CN101-6 | | Ground |
| | | | | |
| | | | | |
| | | | 0V | |
| 01100 = | | | | |
| CN82-7 | +24V | CST3PCB CN101-7 | +24V | +24 VDC Power Supply |
| | | | | |
| | | | | |
| | | | | |
| CN82-8 | +24VM | CST3PCB CN101-8 | +24V | +24 VDC Power Supply |
| | | | 124 | |
| | | | ov | |
| | | | | |
| CN82-9 | ±5V | CST3PCB CN101-9 | | LE VDC Davies Const. |
| J.102-0 | | 00101 00 014101-3 | +5V | +5 VDC Power Supply |
| | | | | |
| | | | | |
| | | | | |
| N82-10 | GND | CST3PCB CN101-10 | | Ground |
| | | | | |
| | | | | |
| | | | 0V | |
| N82-11 | | | | Not Connected |
| | | | | Not Connected |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|-------------|-----------------|---------------|
| CN82-12 | | | | Not Connected |
| | | | | |
| | | | · | |
| | | | | |
| | | | | |
| | | ľ | | |

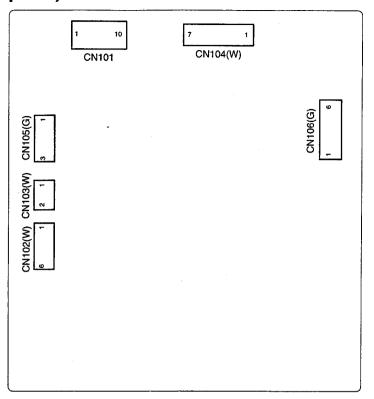
| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|---------------------|-----------------|---|
| CN83-1 | +24VM | Paper Feed Solenoid | +24V 0V | +24 VDC Power Supply |
| CN83-2 | nADF2 | Paper Feed Solenoid | 24V | Feed Roller Drive Clutch Control Signal (250 Sheet Cassette) |

| nPCHK2 | 11. 5. 6 | | |
|--------|---|---|--|
| | No Paper Sensor CN121-1 | +5V (I No Paper 0V (L) | No paper Detection Signal |
| GND | No Paper Sensor CN121-2 | | Ground |
| LDSP2 | No Paper Sensor | | +2 VDC Power Supply |
| 256. 2 | CN121-3 | Approx. +2 VDC | The state of the s |
| nPDOR2 | Jam Access Cover Detect Sensor CN122-1 | +5V (F Cover Open 0V (L) | Jam Cover Open Detection |
| GND | Jam Access Cover Detect Sensor CN122-2 | | Ground |
| | | | <u>ov</u> |
| LDSD2 | Jam Access Cover Detect Sensor CN122-3 | Approx. +2 VDC | +2 VDC Power Supply |
| | nPDOR2 | CN121-2 LDSP2 No Paper Sensor CN121-3 nPDOR2 Jam Access Cover Detect Sensor CN122-1 GND Jam Access Cover Detect Sensor CN122-2 LDSD2 Jam Access Cover | GND No Paper Sensor CN121-2 LDSP2 No Paper Sensor CN121-3 Approx. +2 VDC nPDOR2 Jam Access Cover Detect Sensor CN122-1 GND Jam Access Cover Detect Sensor CN122-2 LDSD2 Jam Access Cover Detect Sensor CN122-3 |

| Pin No. | J - 1.3 | Destination | Signal Waveform | Function |
|---------|---------|------------------------|---------------------|--------------------------|
| | пССНК2 | Cassette Detect Sensor | +5V (H) No Cassette | Paper Cassette Detection |
| CN85-2 | | | | Not Connected |
| CN85-3 | GND | Cassette Detect Sensor | 0V | Ground |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|-----------------|------------------|-----------------|
| CN86-1 | nSIZE21 | SSN PCB CN101-1 | +5V (H) | nSIZE21 L H L H |
| CN86-2 | GND | SSN PCB CN101-2 | OV | A4 LGL |
| CN86-3 | NC | | | LTR |
| CN86-4 | nSIZE22 | SSN PCB CN101-4 | +5V (<u>H</u>) | |
| CN86-5 | GND | SSN PCB CN101-5 | 0V | |
| CN86-6 | NC | | | |

3.15 CST3 PCB (Option)



CN101 Refer to CST2 PCB CN82. CN102

| Pin No. | | Destination | Signal Waveform | Function |
|---------|-------|-------------|-----------------|----------------------|
| CN102-1 | n3MP1 | Main Motor | +24V ov | Motor Drive Signal 1 |
| CN102-2 | +24VM | Main Motor | +24V OV | +24 VDC Power Supply |
| CN102-3 | пЗМР0 | Main Motor | +24V ov | Motor Drive Signal 0 |
| CN102-4 | пЗМРЗ | Main Motor | +24V 0V | Motor Drive Signal 3 |
| CN102-5 | +24VM | Main Motor | +24V 0V | +24 VDC Power Supply |
| CN102-6 | n3MP2 | Main Motor | +24V 0V | Motor Drive Signal 2 |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|---------------------|------------------|------------------------------------|
| CN103-1 | +24VM | Paper Feed Solenoid | +24V (H) | +24 VDC Power Supply |
| | | | OV (L) | 1 |
| CN103-2 | nADF3 | Paper Feed Solenoid | Off 24V On 200ms | Paper Feed Solenoid Control Signal |

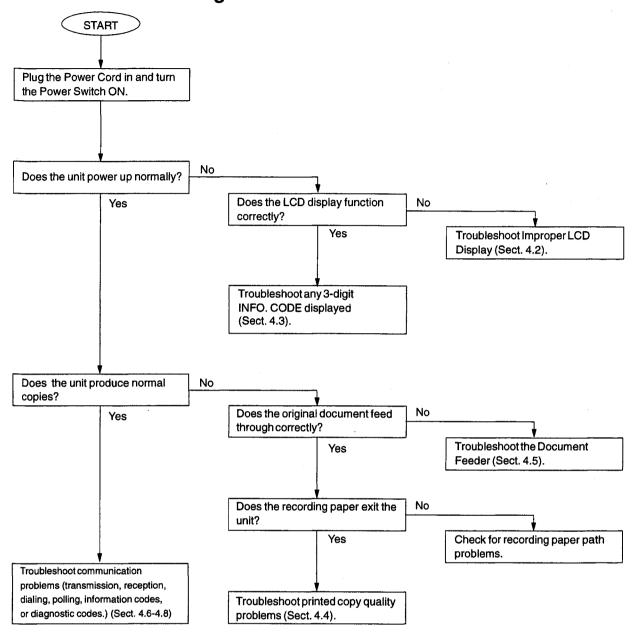
| | Signal Name | Destination | Signal Waveform | Function |
|----------|-------------|---|--------------------|---------------------------|
| CN104-1 | nPCHK2 | No Paper Sensor | | No paper Detection Signal |
| | | CN131-1 | +5V (H) | |
| | | | | |
| | | | No Paper 0V (L) | |
| | | | OV (L) | |
| CN104-2 | OND | No Paper Sensor | | Ground |
| CN 104-2 | GND | CN131-2 | | Ground |
| | | 014151-2 | | |
| | | | | |
| | | | <u></u> | |
| | | | | |
| CN104-3 | LDSP3 | No Paper Sensor | | +2 VDC Power Supply |
| | | CN131-3 | | |
| | | | Approx. +2 VDC | · |
| | | | | |
| | | | | |
| CN104-4 | nPDOR3 | Jam Access Cover | | Jam Cover Open Detection |
| | 2 3 7 7 8 | Detect Sensor CN132-1 | +5V (H) | Jan Sarai Span Balaatan |
| | | | Cover Open | |
| | | | OV (L) | |
| | | | | |
| 011101 | | | | |
| CN104-5 | GND | Jam Access Cover Detect Sensor CN132-2 | | Ground |
| | | Detect Sensor CN132-2 | | |
| | | | | |
| | | | 0V | |
| | | | | |
| CN104-6 | LDSD3 | Jam Access Cover | | +2 VDC Power Supply |
| | | Detect Sensor CN132-3 | | |
| | | 1 | Approx. +2 VDC | |
| | | | | |
| | | | | |
| CN104-7 | NC | | | Not Connected |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | 1 | | 1 |

| Pin No. | Signal Name | Destination | Signal Waveform | Function |
|---------|-------------|------------------------|-----------------|--------------------------|
| CN105-1 | nCCHK3 | Cassette Detect Sensor | +5V (H) | Paper Cassette Detection |
| | | | No Cassette | |
| CN105-2 | NC | Cassette Detect Sensor | Anerosada | Not Connected |
| CN105-3 | GND | Cassette Detect Sensor | | Ground |
| | | | 0V | |

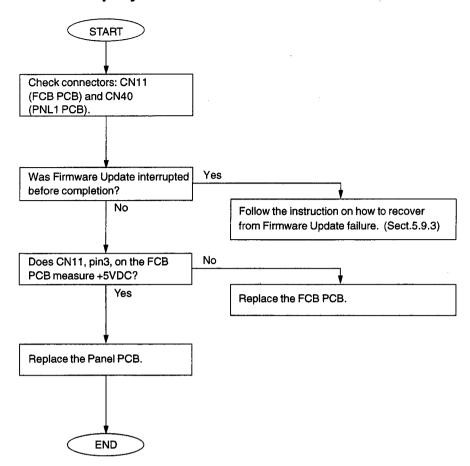
| Pin No. | | Destination | Signal Waveform | Function |
|---------|---------|-----------------|-----------------|---------------------------------|
| CN106-1 | nSiZE31 | SSN PCB CN101-1 | +5V (H) | nSIZE31 L H L H nSIZE32 L L H H |
| CN106-2 | GND | SSN PCB CN101-2 | OV | LGL LTR |
| CN106-3 | | | | |
| CN106-4 | | SSN PCB CN101-4 | +5V (H) | |
| CN106-5 | | SSN PCB CN101-5 | ov | · |
| CN106-6 | NC | | | , |

4 Troubleshooting

4.1 Initial Troubleshooting Flowchart



4.2 Improper LCD Display

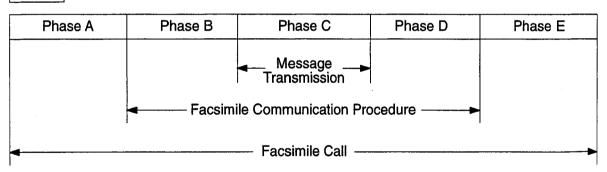


4.3 Information Codes (INFO. CODES)

The 3-digit information codes display to show the unit's status. These codes also print on the journal. The following table indicates appropriate sections for troubleshooting.

| Code | Explanation | Phase | Section |
|---------|-----------------------------|-------|---------|
| 001-003 | Recording paper jam | С | 4.3.8 |
| 007-008 | Recording paper jam | C,D | 4.3.8 |
| 010 | No recording paper | B,C | 4.3.9 |
| 030 | Document misfeeding | В | 4.3.10 |
| 031 | Document too long | С | 4.3.10 |
| 400 | Transmission error | В | 4.3.1 |
| 401 | Transmission error | В | 4.3.2 |
| 402 | Transmission error | В | 4.3.2 |
| 403 | Polling reception error | В | 4.3.12 |
| 404 | Transmission error | В | 4.3.3 |
| 405 | Transmission error | В | 4.3.3 |
| 407 | Transmission error | D | 4.3.3 |
| 408 | Transmission error | D | 4.3.5 |
| 409 | Transmission error | D | 4.3.5 |
| 411 | Polling reception error | В | 4.3.12 |
| 414 | Polling reception error | В | 4.3.12 |
| 415 | Remote side mis-operation | В | 4.3.12 |
| 416 | Reception error | D | 4.3.4 |
| 417 | Reception error | С | 4.3.5 |
| 418 | Reception error | С | 4.3.5 |
| 420 | Reception error | В | 4.3.1 |
| 422 | Transmission error | В | 4.3.2 |
| 434 | Signal noise level too high | В | 4.3.6 |
| 459 | Reception error | С | 4.3.7 |
| 490 | Reception error | С | 4.3.5 |
| 494 | Reception error | С | 4.3.7 |
| 495 | Reception error | С | 4.3.7 |
| 630 | Remote unit busy | В | 4.3.11 |
| 634 | No busy tone detected | В | |

Phase



Phase A: Call establishment

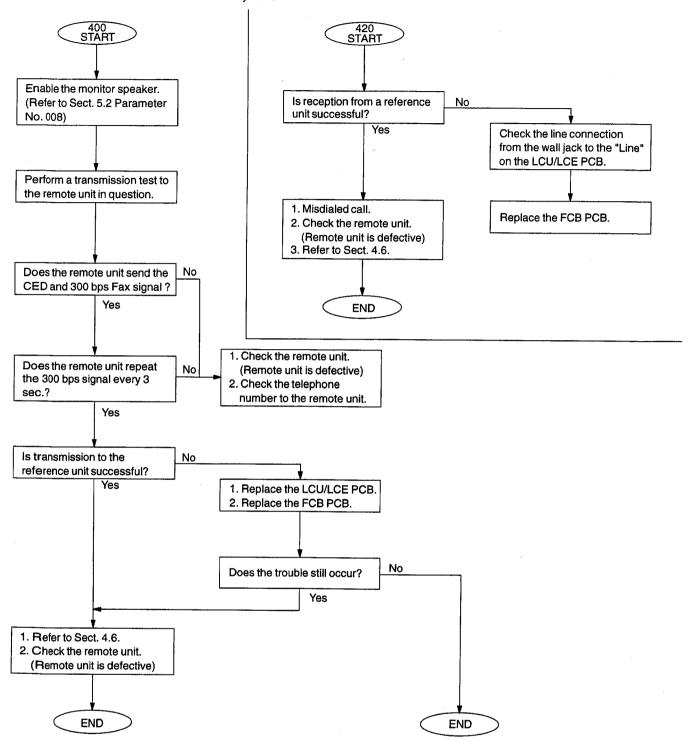
Phase B: Pre-message procedure

Phase C: Message transmission

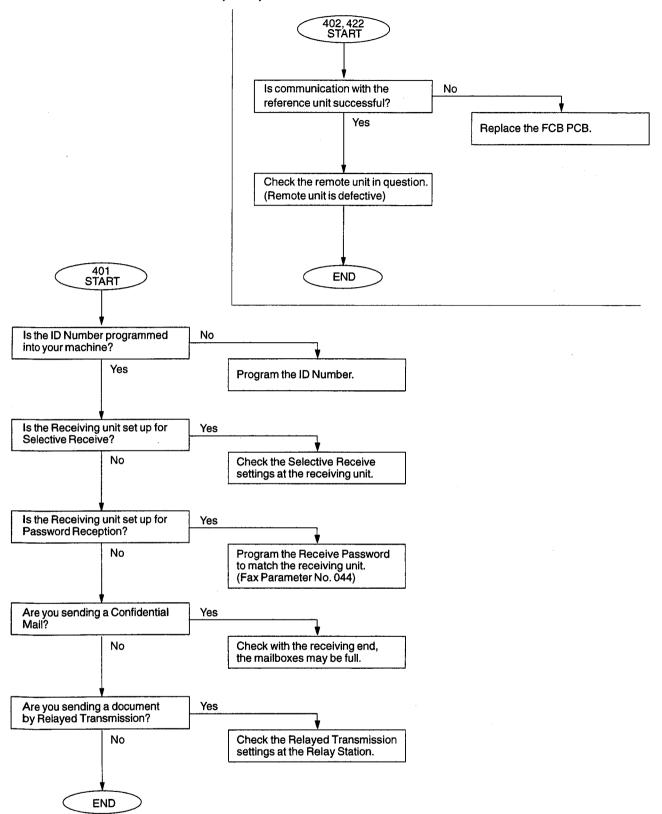
Phase D: Post-message procedure

Phase E: Call release

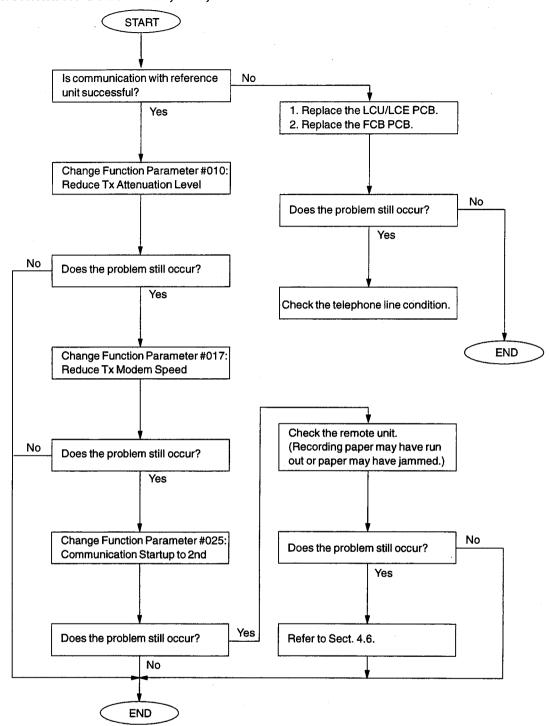
4.3.1 Information Codes: 400, 420



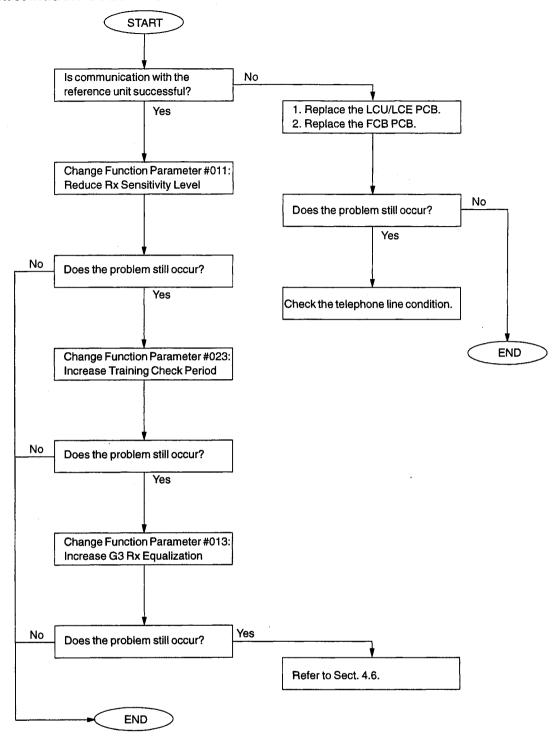
4.3.2 Information Codes: 401, 402, 422



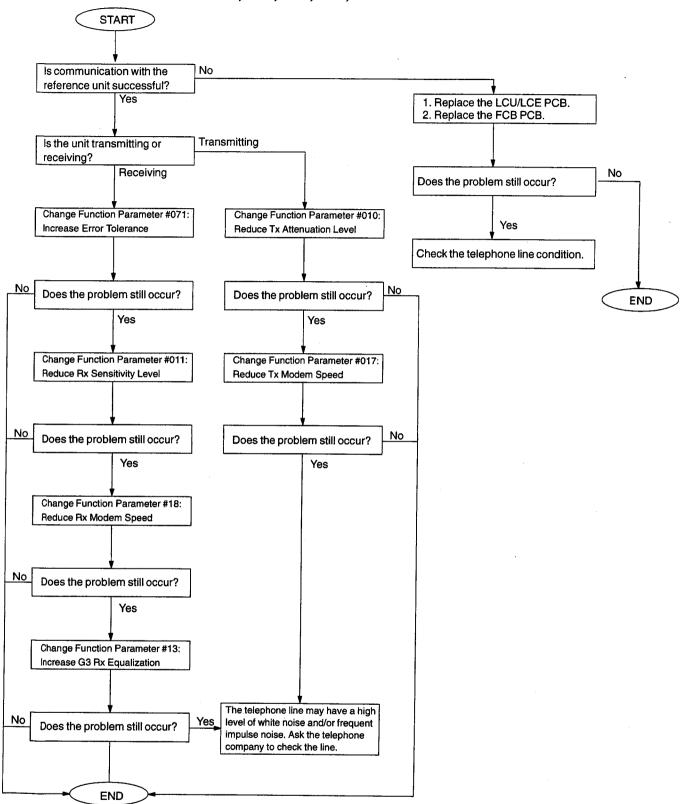
4.3.3 Information Codes: 404, 405, 407



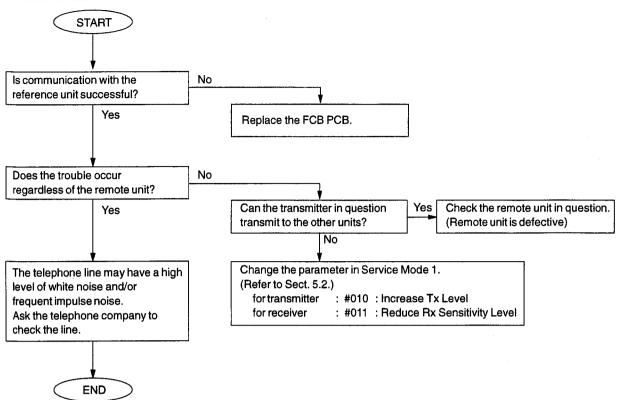
4.3.4 Information Code: 416



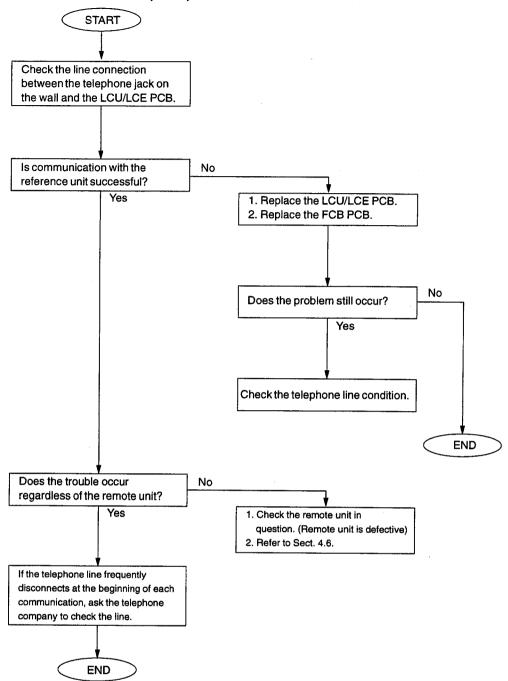
4.3.5 Information Codes: 408, 409, 417, 418, 490



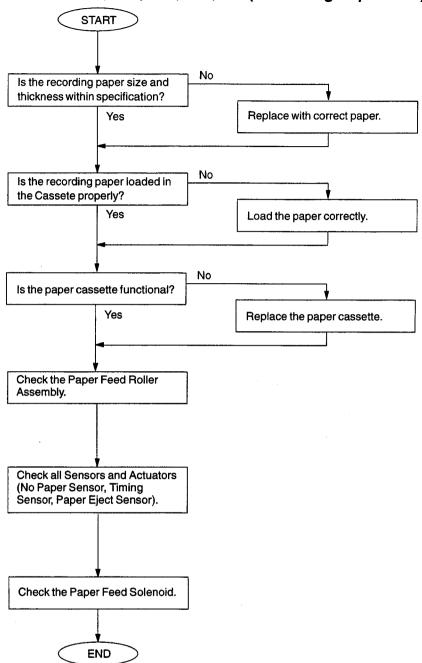
4.3.6 Information Code: 434



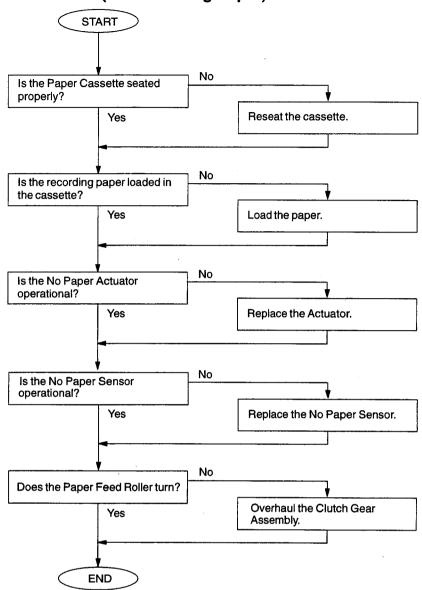
4.3.7 Information Codes: 459, 494, 495



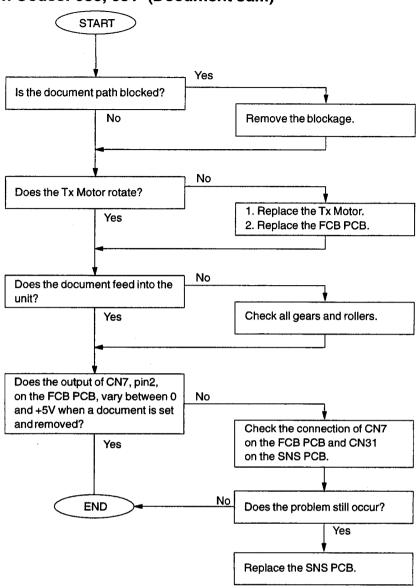
4.3.8 Information Codes: 001, 002, 003, 007,008 (Recording Paper Jam)



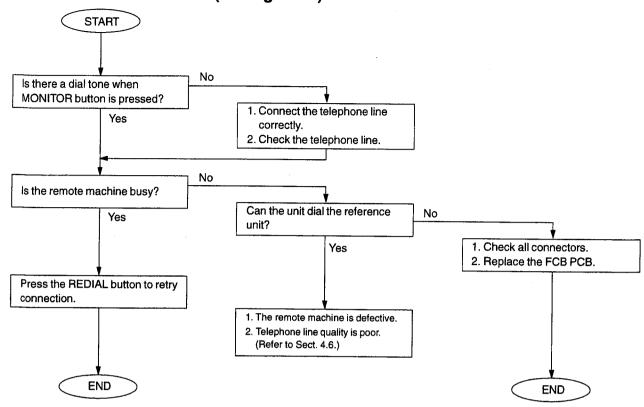
4.3.9 Information Code: 010 (No Recording Paper)



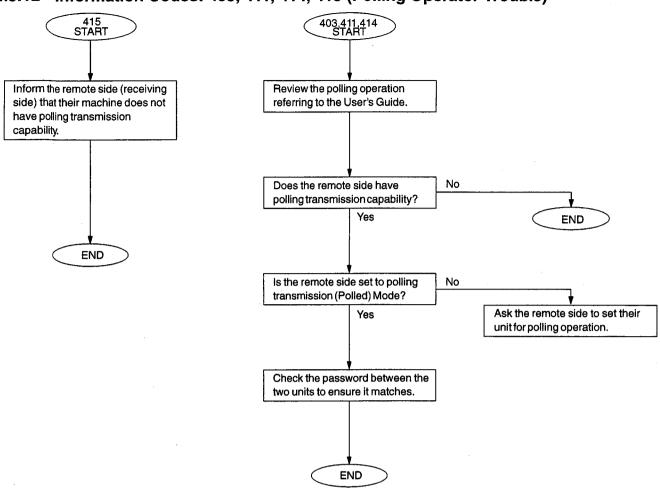
4.3.10 Information Codes: 030, 031 (Document Jam)



4.3.11 Information Code: 630 (Dialing Error)



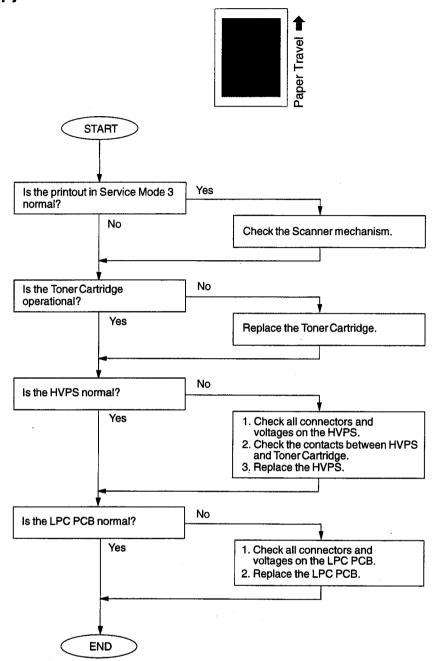
4.3.12 Information Codes: 403, 411, 414, 415 (Polling Operator Trouble)



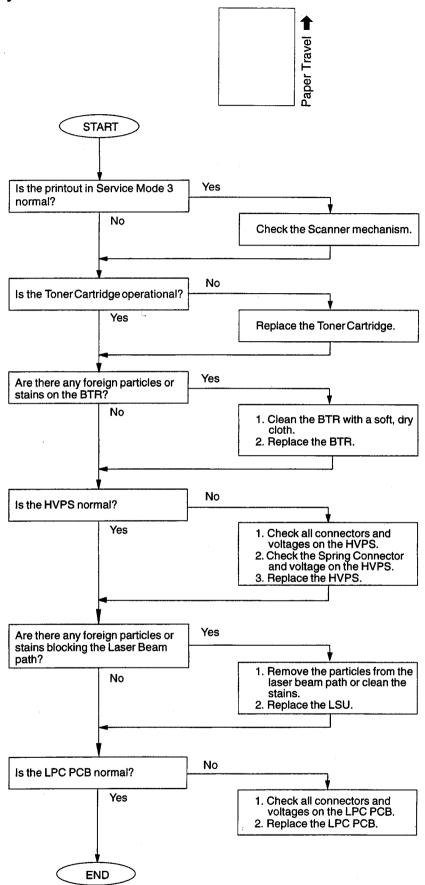
Polling communication with 4-digit password is not an ITU-T / CCITT Standard feature. If the transmitter and receiver are of different manufacturers, polling communication with password *may not* be possible.

4.4 Printed Copy Quality Problems

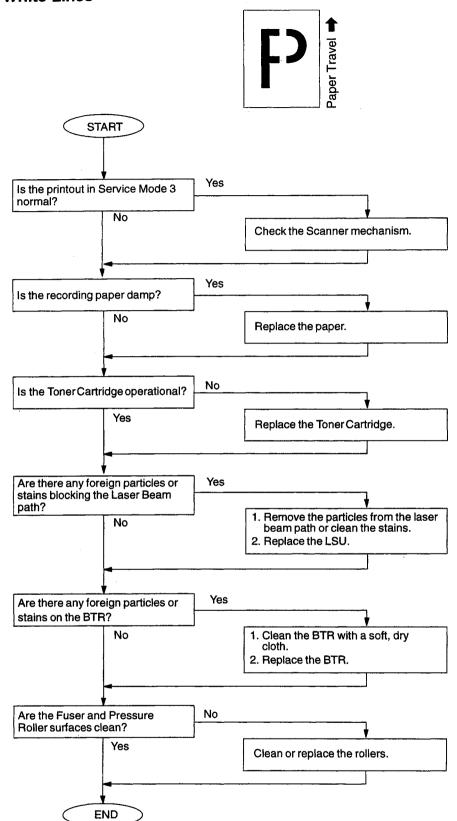
4.4.1 Black Copy



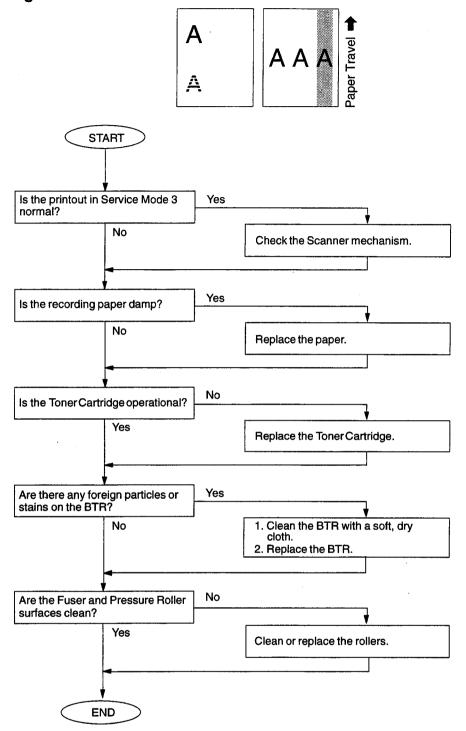
4.4.2 Blank Copy



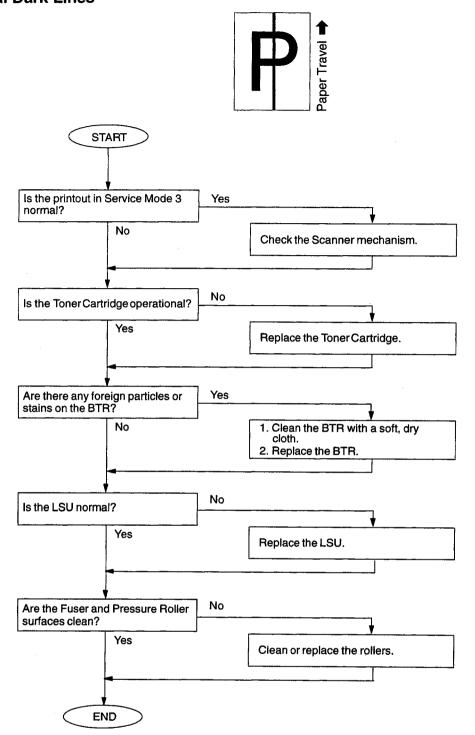
4.4.3 Vertical White Lines



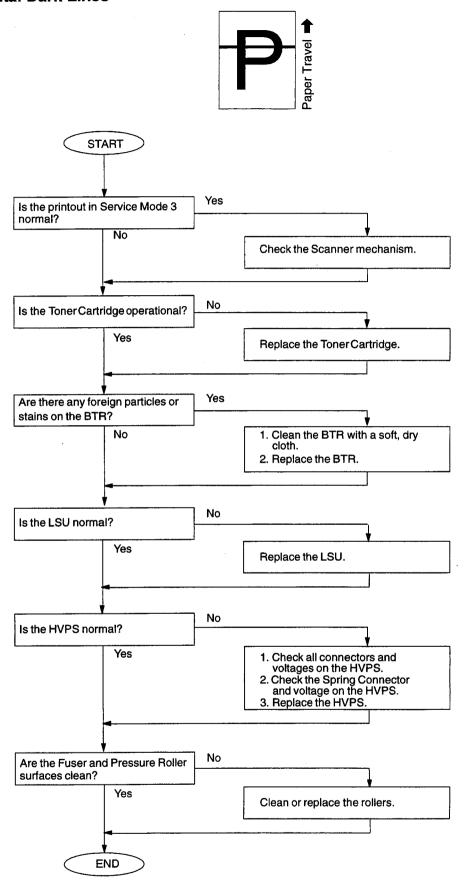
4.4.4 Ghost Images



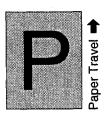
4.4.5 Vertical Dark Lines

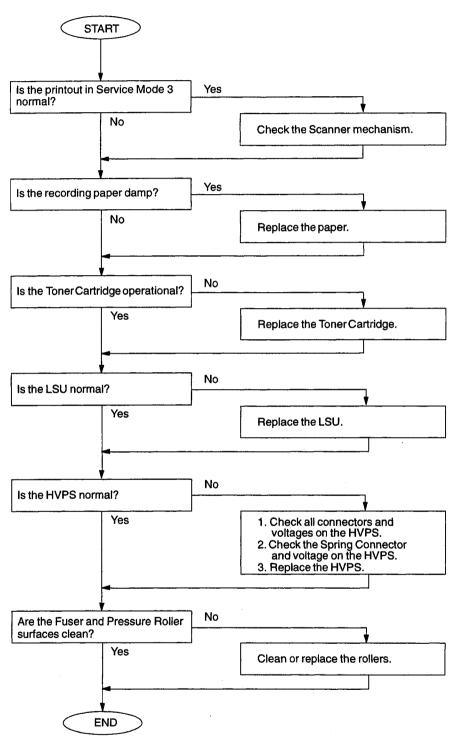


4.4.6 Horizontal Dark Lines

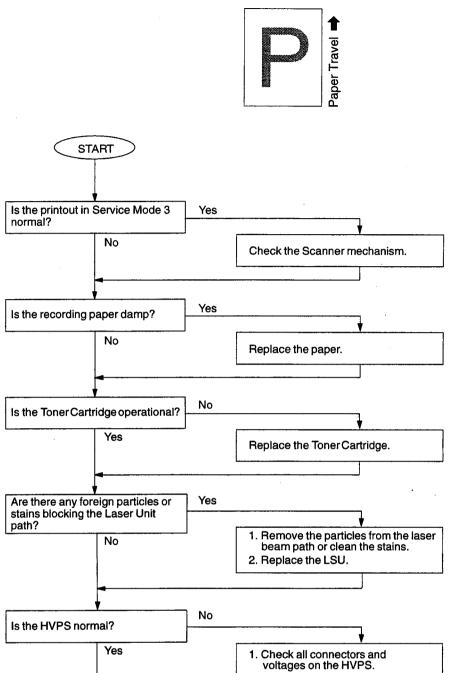


4.4.7 Dark Background





4.4.8 Light Print



2. Replace the HVPS.

Clear or replace the rollers.

No

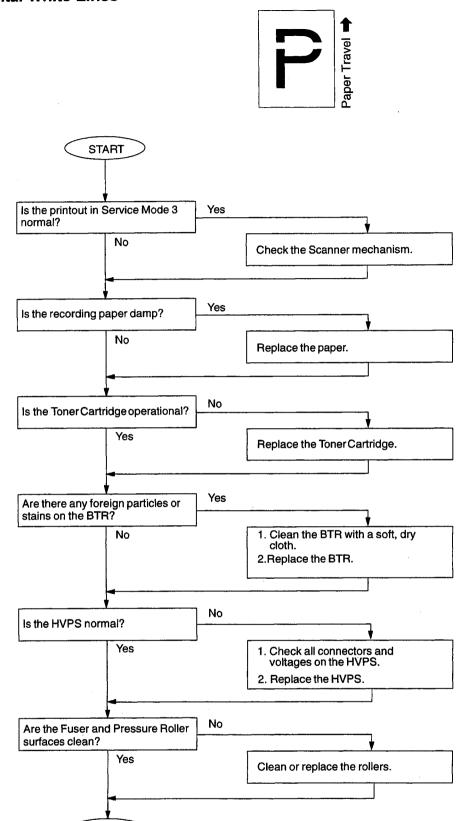
Are the Fuser and Pressure Roller

END

Yes

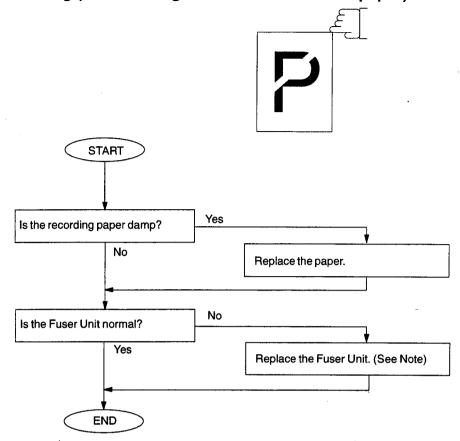
surfaces clean?

4.4.9 Horizontal White Lines



END

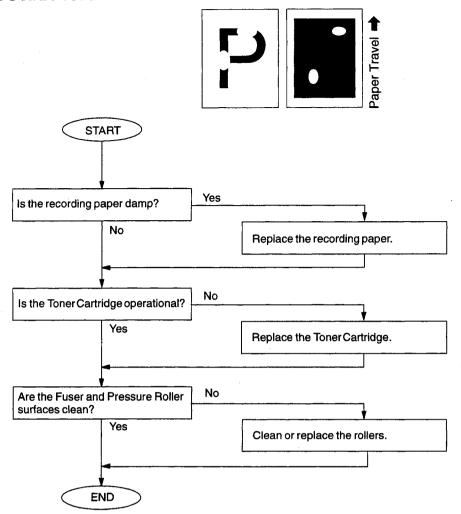
4.4.10 Improper Fusing (Printed image does not bond to the paper)



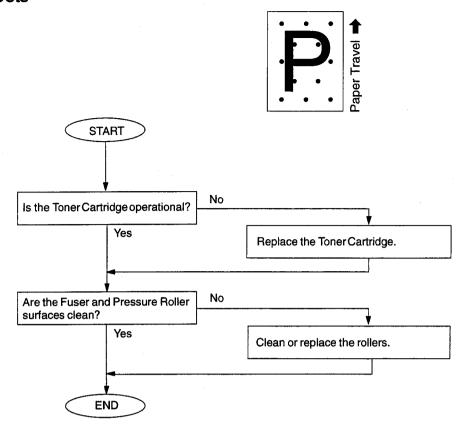
Note:

Replace the entire Fuser Unit when the Thermostat and / or the Thermistor becomes open-circuit.

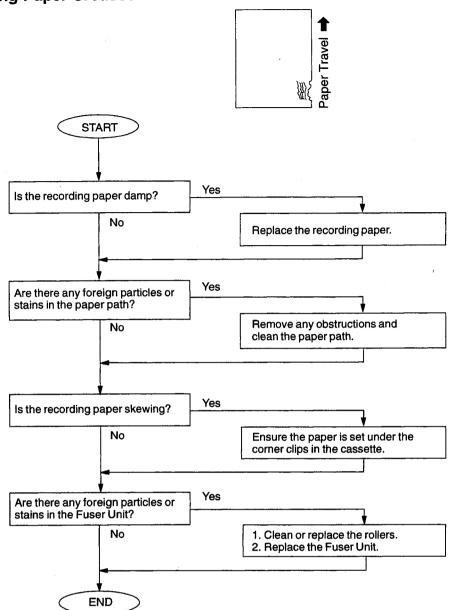
4.4.11 Voids in Solid Areas



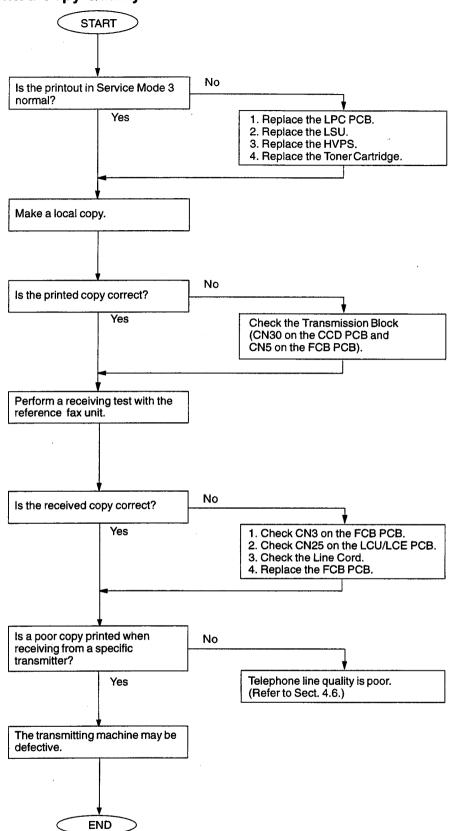
4.4.12 Black Dots



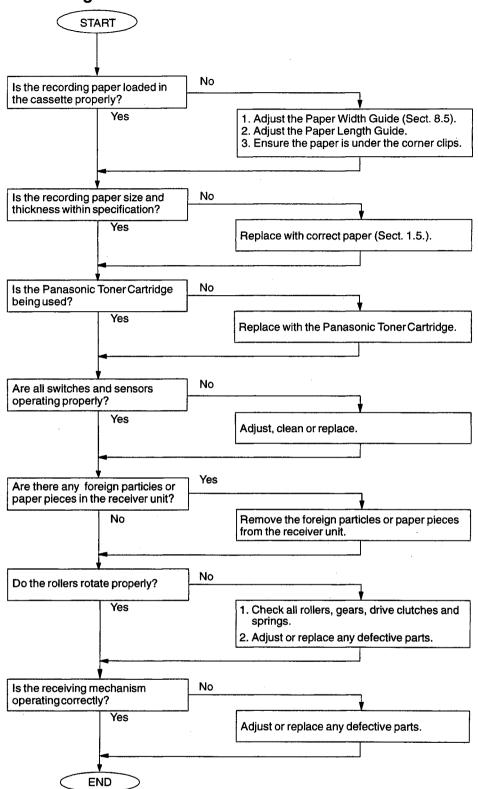
4.4.13 Recording Paper Creases



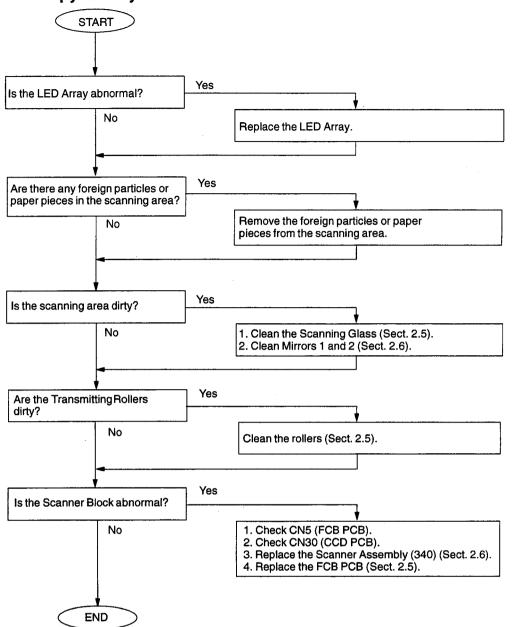
4.4.14 Poor Printed Copy Quality



4.4.15 Abnormal Printing

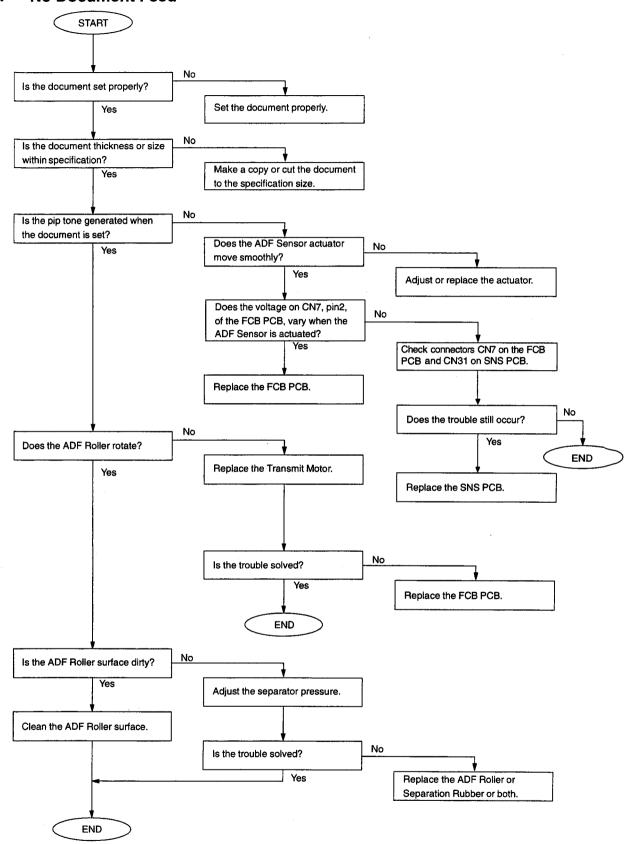


4.4.16 Scanned Copy Quality Problems

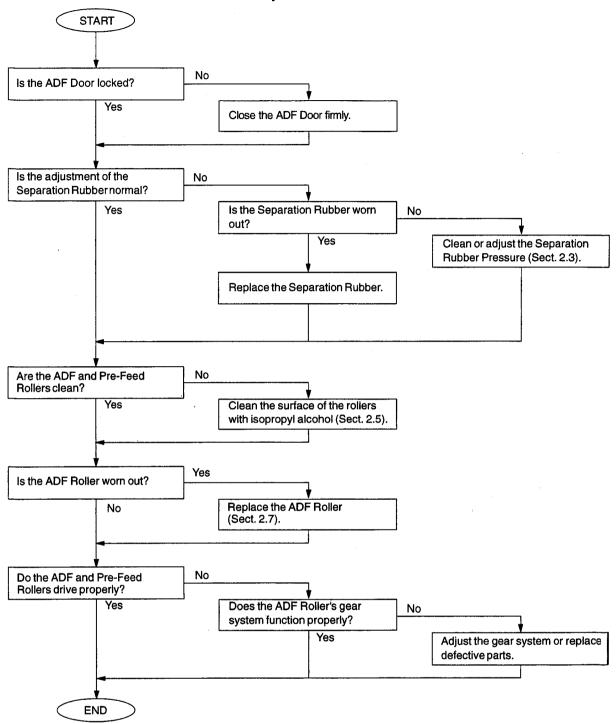


4.5 Document Feeder (ADF)

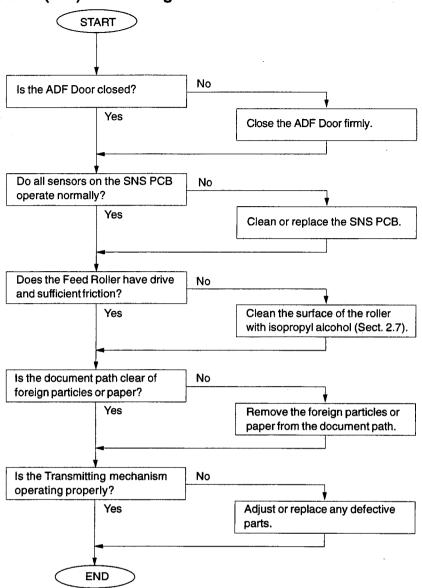
4.5.1 No Document Feed



4.5.2 Document does not feed or Multiple feeds



4.5.3 Document Jam (030) or Skewing

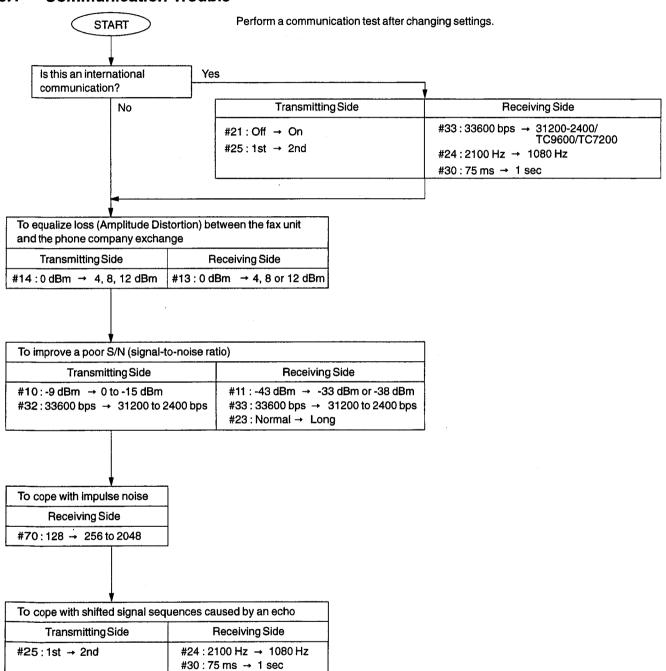


4.6 Communications

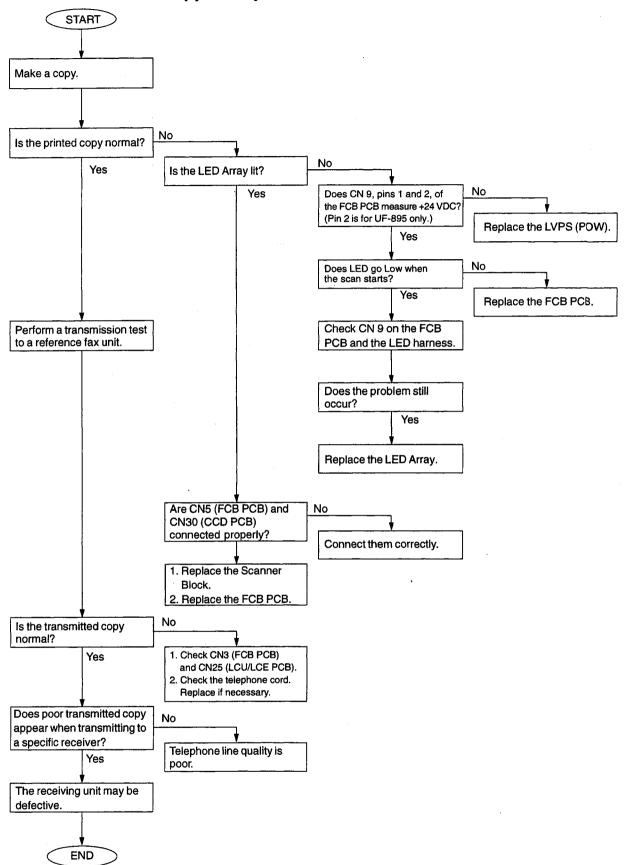
This section explains general troubleshooting procedures for the 400 series of Information Codes. These errors are primarily caused by poor telephone line quality (loss, noise, echo, etc.). This unit is furnished with Service Mode 1 to assist in troubleshooting line quality problems.

It is suggested that both the transmitting unit and receiving unit be adjusted. This section gives relevant parameters in Service Mode 1 for the transmitting and receiving sides. If no improvement is realized after the parameters are adjusted, it is recommended that the parameters be returned to the default settings.

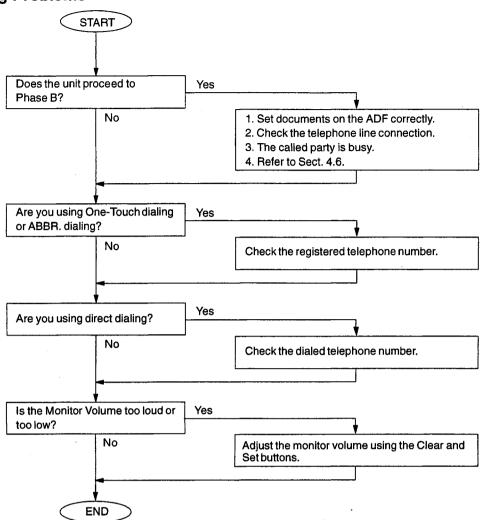
4.6.1 Communication Trouble



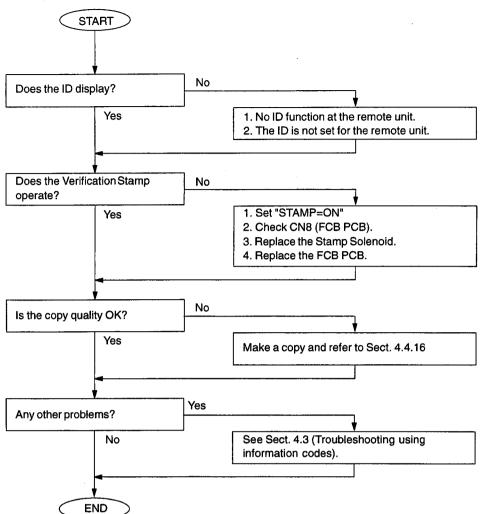
4.6.2 Poor Transmitted Copy Quality



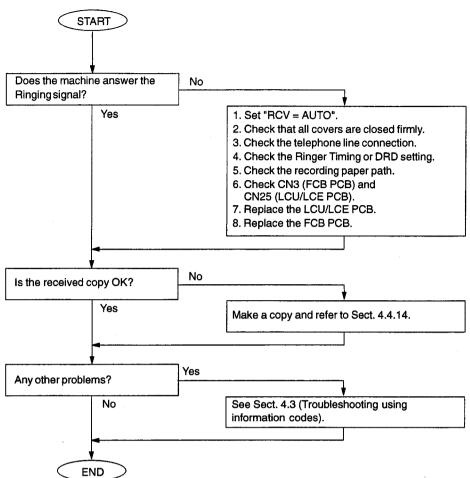
4.6.3 Dialing Problems



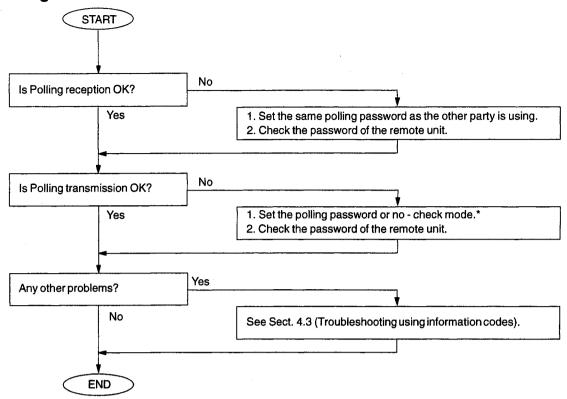
4.6.4 Transmission Problems



4.6.5 Reception Problems



4.6.6 Polling Problems



Note:

No-check Mode means that password is not set.

4.7 Information Code Table

| Code | Mode | Phase | Information Codes Description of Problem | Cause |
|-------------|-----------------------|---------|--|--|
| 001 | RCV | C, D | Leading edge of the recording paper fails to | Recording paper jam. |
| | COPY | | reach the Timing Sensor. (1st cassette) | Timing Sensor abnormal. |
| 002 | COPY | C, D | Leading edge of the recording paper fails to reach the Timing Sensor. (2nd cassette) | Recording paper jam. Timing Sensor abnormal. |
| 003 | RCV COPY | C, D | Leading edge of the recording paper fails to reach the Timing Sensor. (3rd cassette) | Recording paper jam. Timing Sensor abnormal. |
| 007 | RCV | C, D | 1.Leading edge of the recording paper fails to | Recording paper jam. |
| 007 | COPY | | reach the Eject Sensor. 2.Recording paper has not completely passed the Eject Sensor. | Eject Sensor abnormal. |
| 800 | RCV COPY | C, D | Paper Cassette was opened while the recording paper was feeding. | Recording paper jam. |
| 010 | RCV COPY | B, C | No recording paper. | No recording paper or paper is not set properly. No paper Sensor is defective. |
| 011 | STANDBY | - | Paper Cassette is not installed properly. | |
| 012 | RCV | C, D | The length of the received document is over 380mm. (Used in France only) | |
| 021 | STANDBY | B, C, D | Fan is abnormal. | Defective LPC PCB. |
| | RX COPY | _, _, _ | Thermister is abnormal. Fuser Control is abnormal. | Defective Fuser Unit, LVPS or Fan. |
| 026 | - | - | The backup battery is getting weak. | |
| 030 | ХМТ | В | Read Point Sensor does not go ON within 10 seconds after the document starts feeding. | Document is not set properly. Defective Read Point Sensor. |
| 031 | XMT | l c | Transmitting document was longer than | The document may jam. |
| | COPY | | 2,000mm (or 78.7 in). | Defective Read Point Sensor. |
| 033 | - | - | Sub CPU system error. | Defective FCB PCB. |
| 041 | STANDBY RX COPY | B, C, D | Out of toner. | No toner. Defective Toner Sensor. |
| 043 | STANDBY RX COPY | B, C, D | Low Toner. | Toner is getting low. Defective Toner Sensor. |
| 045 | STANDBY | - | No Toner Cartridge. | Toner cartridge has not been installed. Defective Toner Sensor (Cartridge Sensor). |
| 051 | RCV COPY | - | Printer Motor is abnormal. | Connector not properly connected. Defective Printer Motor. Defective LPC PCB. |
| 054 | STANDBY RX COPY | - | HSYNC is abnormal. Laser motor is abnormal. | Defective Laser Unit. |
| 055 | STANDBY RX COPY | - | No response of LBP CPU on LPC. | Defective LPC PCB. Defective FCB PCB. |
| 058 | - | Α | Interface error occurred with the 500-sheet optional cassette feeder. | Defective CST3 PCB. |
| 059 | RCV COPY | С | Interface error occurred between FCB PCB and LPC PCB. | Defective LPC PCB. Defective FCB PCB. |
| 06 0 | - | A | Printer Cover is open. | Cover is not firmly closed. Connectors are not firmly connected. |
| 061 | - | A | ADF Door is open. | Cover is not firmly closed. Connectors are not firmly connected. |
| 063 | - | A | Jam Access Cover is open. | Cover on the optional 2nd cassette is not closed. |
| 064 | - | А | Jam Access Cover is open. | Cover on the optional 3rd cassette is not closed. |
| 200 | RCV | С | Decoding process is not completed at the end of phase C. | 1 |
| 212 | XMT RCV | A-E | Interface error occurred between the CPU and modem. | Modem is defective. (FCB PCB) Software problem occurred. (FCB PCB) |
| 301 | XMT | | System fault. | Software problem occurred. (FCB PCB) |
| 331 | XMT | С | 8-minutes timer error. (Germany only) | |

| Oct : | Maria | Dhasa | Information Codes Description of Problem | Cause |
|-------------|--------------------------|------------|---|---|
| Code 400 | Mode XMT | Phase B | T1 timer (35±5 sec) elapsed without detecting | Wrong number is dialed and the START button |
| 400 | XMI | В | 300 bps signal. | is pushed. Telephone line is disconnected while dialing. FCB PCB (Modem) or LCU/LCE PCB is defective. |
| | | | | Receiver is defective. (It may only be transmitting CED) |
| 401 | XMT | В | DCN was returned from receiver while transmitter is waiting for CFR or FTT. | Your machine's ID Number is not programmed. Possible incompatibility or incorrect Password (Password Reception, Selective Receive). Mailbox is full. |
| 402 | XMT | В | DCN was returned from receiver while transmitter is waiting for NSF/DIS. | Receiver working in non-CCITT mode only. (Possible incompatibility) |
| 403 | RCV(Polling) | В | Transmitter had no polling function. | "POLLED=ON" (polling XMT ready) is not set at the transmitter. Document to be transmitted is not placed at the transmitter. |
| 404 | ХМТ | В | Transmitter sent NSS (or DCS) followed by TCF three times, but the receiver did not respond. (CFR or FTT is usually returned) | etc.) FCB PCB or LCU/LCE PCB is defective. Receiver disconnects line during first NSS (or DCS) is transmitted. |
| 405 | хмт | В | Transmitter received FTT after it transmitted TCF at 2400bps. Received RTN after communicating at 2400 bps. | Line quality is poor. (TCF is damaged due to line noise) Receiver is defective. (Modem, LCU/LCE PCB, etc.) FCB PCB or LCU/LCE PCB is defective. |
| 406 | RCV(Pass- word Comm.) | В | XMT-Password mismatched. RCV-Password mismatched. Selective RCV incomplete. | XMT, RCV password does not match. Last 4 digits of TSI does not match with the last 4 digits of ONE-TOUCH, ABBR telephone number. |
| 407 | хмт | D | Transmitter received no response after it transmitted post message, such as EOP, MPS, EOM, etcor received DCN. | Receiver is defective. (No paper, paper jamming, etc.) Receiver ceased receiving because of excessive error. (Line quality is poor) FCB PCB (Modem) or LCU/LCE PCB is defective. |
| 408 | ХМТ | D | Transmitter received RTN after it transmitted EOP, MPS, or EOM. | Receiver receives data with error. (Line quality is poor) Receiver is defective. (Modem, LCU/LCE, etc.) FCB PCB or LCU/LCE PCB are defective. |
| 409 | XMT | D | Transmitter receives PIN after it transmitted a post message, such as EOP, MPS, EOM, etc. | Receiver receives data with error due to poor line quality, and receiving operator requests voice contact. Receiver is defective. (Modem, LCU/LCE, etc.) FCB PCB or LCU/LCE PCB are defective. |
| 410 | RCV | D | Received DCN while waiting for post command. (EOP, MPS, EOM, etc.) | Interface or line is faulty.Transmitter is defective. |
| 411 | RCV(Polling) | В | Received DCN after transmitting NSC. | Transmitter is not ready for polling communication. Password does not match between transmitter and receiver. |
| 412 | G3 RX | B, D | No response within 12 seconds in NSS/DCS/MPS wait state. (After transmitting FTT) | Transmitter is defective. FCB PCB is defective. |
| 414 | RCV(Polling) | В | No response received after transmitting 3rd NSC. | Password does not match between traismitter and receiver. Transmitter is defective. (No document document jam, etc.) |
| 415 | XMT(Polling) | В | Remote side attempted to receive message from your machine in polling communication. Inform the remote side that your machine does not have the polling transmission feature. | |
| 416 | RCV | D | Receiver did not detect post command, such as EOP, MPS, EOM, etc. | Transmitter is defective.Line quality is po (RTC signal is distorted due to line noise) FCB PCB or LCU/LCE PCB are defective. |
| 417 | RCV | С | Receiver returned RTN in response to post message. | Line quality is poor. (There are excessive entrois in received data) FCB PCB or LCU/LCE PCB are defective. |

| | | | Information Codes | |
|-------------|-------------------------------|----------------|---|---|
| Code 418 | Mode RCV | Phase C | Description of Problem | Cause |
| 418 | HCV | C | Receiver transmitted PIN in response to PRI-Q from transmitter. (Transmitting operator requests voice contact) | Line quality is poor. (There are excessive errors in received data) FCB PCB or LCU/LCE PCB are defective. |
| - | RCV | В | T1 timer (35 sec.) elapsed without detecting 300 bps signal. | There is wrong incoming call.(non-facsimile communication) Transmitter is defective. FCB PCB or LCU/LCE PCB is defective. |
| 421 | RCV | В | Busy Tone is detected after sending NSF Signal. | Wrong number is dialed. |
| 422 | XMT | В | Content of NSF (or DIS) or NSC (or DTC) was invalid. | There is an incompatibility. |
| 427 | G3 RCV | В | DCN received to NSF/CSI/DIS transmitted. | The interface is incompatible. |
| 433 | XMT RCV | B, D | T.30 Protocol abnormal. | Defective remote station. |
| 434 | XMT or RCV | В | CD (response from Modem) did not turn OFF within 180 sec. after receiver detected FLAG signal. | Remote unit is defective. FCB PCB or LCU/LCE PCB is defective. |
| 436 | G3 RX | С | DCN received after transmitting FTT. | Transmitter is defective or incompatible. Line quality is poor. |
| 456 | RCV | В | Received relay transfer request or confidential document to distribute to a end receiving station or all confidential mailboxes are used. | |
| | RELAYXMT CONF.XMT/ POLL | В | Remote unit does not have Relayed XMT or Confidential Comm. capability. | |
| 459 | RCV | Č | Failed training in Phase C. | Line quality is poor. (Training signal is distorted due to line noise) FCB PCB or LCU/LCE PCB are defective. |
| 490 | RCV | С | Sum of error line exceeded the limit (Parameter 70) by 64 lines. | Line quality is poor. FCB PCB or LCU/LCE PCB are defective. |
| 494 | RCV | C _. | Interval between two EOLs was more than 10 sec. when receiver received message data. | Transmitter is defective. Line quality is poor. (EOL is damaged due to line noise) FCB PCB or LCU/LCE PCB are defective. |
| 495 | XMT/RCV | С | During reception, CD turned OFF or continued ON for long time. During communication, lost loop - current. | Line is disconnected. Transmitter is defective. FCB PCB or LCU/LCE PCB are defective. |
| 496 | XMT | С | CS of modem is not able to turn ON. | FCB PCB is defective. |
| 501 | XMT/ RCV(V.34) | В | Remote unit does not have Modem compatibility. | |
| 502 | XMT/ RCV(V.34) | B, C, D | During reception, CD turned OFF or continued ON for long time. During communication, lost loop - current. | Line is disconnected. Transmitter is defective. FCB PCB or LCU/LCE PCB are defective. |
| 503 | XMT/ RCV(V.34) | B, C, D | CS of modem is not able to turn ON during training. | FCB PCB is defective. Line is disconnected. |
| 504 | RCV/V.34 (Polling) | В | Polling is rejected from the remote station. | No polling document is set. |
| 505 | XMT/V.34 (Polling) | В | Polling XMT is rejected. | No polling document is set. |
| 540 | XMT ECM | В | No response after transmitting 3rd CTC or DCN received. | · |
| 541 | XMT ECM | D | No response after transmitting 3rd EOR or received DCN. | Line is faulty. LCU/LCE PCB abnormal. |
| 542 | XMT ECM | D | No response to the 3rd RR transmitted or received DCN. | Remote unit is abnormal. |
| | XMT ECM | D | T5 timer (60 sec.) elapsed without MCF. | Remote unit is abnormal. |
| | XMT ECM | D | | Line is faulty. LCU/LCE PCB abnormal. |
| | RCV ECM | C | Timer between frames in phase C has elapsed. | Defective remote station. |
| | RCV ECM | D | Transmitted ERR after receiving EOR. | Faulty line. |
| | RCV ECM | D | Transmitted PIN after receiving EOR. | Faulty line and Operator Call requested by RX side. |
| | RCV | В | Password or machine code did not match during remote diagnostic communication. | |
| | XMT | В | Remote unit did not have the remote diagnostic function. | |
| 580 | XMT | В | Sub-address transmission to a unit that has their DIS bit 49 (NSF bit 155) OFF. | Sub-address transmission to a unit that has no Sub-address function. |

| | · Information Codes | | | | |
|------|---|-------|--|---|--|
| Code | Mode | Phase | Description of Problem | Cause | |
| 581 | XMT | В | Sub-address Password transmission to a unit that has their DIS bit 50 (NSF bit 156) OFF. | Sub-address transmission to a unit that has no Sub-address function. | |
| 601 | XMT | | ADF Door was opened during ADF transmission. | | |
| 623 | XMT | Α | No document was in the ADF. (Built-in dialer engaged) | Operator removed the document from the ADF after dialing was completed. Document is not set properly in the ADF. | |
| 630 | XMT or RCV(Polling) | В | Redial count over. | No dial tone detected. Sensor dial tone is not detected. (country dependent) Busy tone is detected. (country dependent) T1 timer (35±5 sec) elapsed without a signal from the receiver. | |
| 631 | XMT | Α | "STOP" button was pressed during Auto Dialing | | |
| 634 | ХМТ | | Redial count over with no response or busy tone was not detected. Note: U.S.A. models will redial only once if busy tone is not detected. Canadian models will not redial when the communication fails due to no response from the called station. | | |
| 638 | XMT | | Power turned off with applicable data in memory or during communication. | Power switched off. Power failure occurred. | |
| 800 | Relay Comm. | | The machine was requested to relay a document but has no Relay Hub capability. | | |
| 814 | Conf. XMT Conf. Polling Relay Comm. | | The remote station does not have Relay XMT nor Confidential Communication capability. | | |
| 815 | Conf. RCV | | Mailbox is full. | | |
| 816 | Conf. Polled | | The received Polling Password did not match. | | |
| 825 | Conf. RCV Conf. Polled | | Parameter settings of the remote station are not properly set. | | |
| 870 | MEM XMT Multi-Copy | | Memory overflow occurred while storing documents into memory. | | |

Diagnostic Codes 4.8

The 13-digit Diagnostic Code is provided for the service engineer to analyze how the communication was performed. The code is recorded on the Journal.

Journal Example

| *** | ***** | -JOUR | NAL- | ***** | ***** | ****** DATE 12-J | AN-1999 | **** T | IME 09:39****** |
|-----|--------|--------|-------|------------|-------|------------------|-----------|--------------------|-----------------|
| NO. | сомм. | PAGES | FILE | DURATION | X/R | IDENTIFICATION | DATE | TIME | DIAGNOSTIC |
| 01 | ОК | 001 | 129 | 00:00:42 | XMT | 123 456 789 | 12-JAN | 01:55 1st digit | C8649003C0000 |
| *** | ****** | ****** | ***** | **** - PAN | AFAX | | ASONIC P/ | | · |

1st Digit: Manufacturer Code -: Not used/defined

| Data | T | Definition | | | | | | |
|------|-------------------|------------|--|--|--|--|--|--|
| | Manufacturer Code | | | | | | | |
| 0 | | | | | | | | |
| 1 | Casio | | | | | | | |
| 2 | Canon | | | | | | | |
| 3 | Sanyo | | | | | | | |
| 4 | Sharp | | | | | | | |
| 5 | Tamura | | | | | | | |
| 6 | Toshiba | | | | | | | |
| 7 | NEC | | | | | | | |
| 8 | Oki | | | | | | | |
| 9 | Hitachi | | | | | | | |
| Α | Xerox | | | | | | | |
| В | Fujitsu | | | | | | | |
| С | Matsushita | | | | | | | |
| D | Mitsubishi | | | | | | | |
| E | Murata | | | | | | | |
| F | Ricoh | | | | | | | |

2nd Digit

-: Not used/defined

| Data | Definition | | | | | | |
|------|--------------------|----------|----------|-------------|--|--|--|
| | ID (TSI, CSI, CIG) | RTN | DCN | STOP Button | | | |
| 0 | - | - | • | - | | | |
| 1 | Received | • | - | - | | | |
| 2 | - | Received | - | • | | | |
| 3 | Received | Received | - | - | | | |
| 4 | - | • | Received | - | | | |
| 5 | Received | - | Received | • | | | |
| 6 | - | Received | Received | • | | | |
| 7 | Received | Received | Received | - | | | |
| 8 | - | • | • | Pressed | | | |
| 9 | Received | • | • | Pressed | | | |
| Α | - | Received | - | Pressed | | | |
| В | Received | Received | • | Pressed | | | |
| С | | - | Received | Pressed | | | |
| D | Received | - | Received | Pressed | | | |
| E | - | Received | Received | Pressed | | | |
| F | Received | Received | Received | Pressed | | | |

| Data | Definition | | | | | |
|------|------------------|-------------|--|--|--|--|
| | Resolution (dpi) | Paper Width | | | | |
| 0 | - | A4 | | | | |
| 1 | S-Fine | A4 | | | | |
| 2 | 400 x 400 | A4 | | | | |
| 3 | 300 x 300 | A4 | | | | |
| 4 | - | B4 | | | | |
| 5 | S-Fine | B4 | | | | |
| 6 | 400 x 400 | B4 | | | | |
| 7 | 300 x 300 | B4 | | | | |
| 8 | - | • | | | | |
| 9 | - | • | | | | |
| A | - | • | | | | |
| В | - | - | | | | |
| С | - | A3 | | | | |
| D | S-Fine | A3 | | | | |
| E | 400 x 400 | A3 | | | | |
| F | 300 x 300 | A3 | | | | |

4th Digit
-: Not used/defined

| Data | Definition | | | | | |
|------|---------------|------------|--|--|--|--|
| | Scanning Rate | Resolution | | | | |
| 0 | 20 ms/line | Std | | | | |
| 1 | 5 ms/line | Std | | | | |
| 2 | 10 ms/line | Std | | | | |
| 3 | - | Std | | | | |
| 4 | 40 ms/line | Std | | | | |
| 5 | • | Std | | | | |
| 6 | - | Std | | | | |
| 7 | 0 ms/line | Std | | | | |
| 8 | 20 ms/line | Fine | | | | |
| 9 | 5 ms/line | Fine | | | | |
| Α | 10 ms/line | Fine | | | | |
| В | - | Fine | | | | |
| С | 40 ms/line | Fine | | | | |
| D | - | Fine | | | | |
| E | - | Fine | | | | |
| F | 0 ms/line | Fine | | | | |

| Data | Definition | | | | | |
|------|----------------|----------------------|-------------------|---------------------------------------|--|--|
| | Deferred Comm. | Dialing/RCV | Memory/Non-Memory | | | |
| 0 | • | Manual Communication | Non-Memory | | | |
| 1 | Used | Manual Communication | Non-Memory | , | | |
| 2 | - | Auto Dialing | Non-Memory | | | |
| 3 | Used | Auto Dialing | Non-Memory | | | |
| 4 | - | Auto RCV | Non-Memory | | | |
| 5 | Used | Auto RCV | Non-Memory | | | |
| 6 | - | Remote RCV | Non-Memory | | | |
| 7 | Used | Remote RCV | Non-Memory | | | |
| 8 | .• | Manual Communication | Memory | | | |
| 9 | Used | Manual Communication | Memory | | | |
| Α | - | Auto Dialing | Memory | | | |
| В | Used | Auto Dialing | Memory | | | |
| С | - | Auto RCV | Memory | | | |
| D | Used | Auto RCV | Memory | | | |
| E | - | Remote RCV | Memory | · · · · · · · · · · · · · · · · · · · | | |
| F | Used | Remote RCV | Memory | | | |

| Data | Definition | | | | | | |
|------|------------|---------|-----------------|----------------|--|--|--|
| | Polling | XMT/RCV | Selective Comm. | Password Comm. | | | |
| 0 | - | RCV | Off | Off | | | |
| 1 | Yes | RCV | Off | Off | | | |
| 2 | - | XMT | Off | Off | | | |
| 3 | Yes | XMT | Off | Off | | | |
| 4 | • | RCV | On | Off | | | |
| 5 | Yes | RCV | On | Off | | | |
| 6 | - | XMT | On | Off | | | |
| 7 | Yes | XMT | On | Off | | | |
| 8 | - | RCV | Off | On | | | |
| 9 | Yes | RCV | Off | On | | | |
| A | | XMT | Öff | On | | | |
| В | Yes | XMT | Off | On | | | |
| С | - | RCV | On | On | | | |
| D | Yes | RCV | On | On | | | |
| E | - | XMT | On | On | | | |
| F | Yes | XMT | On | On | | | |

7th Digit
-: Not used/defined

| Data | Definition | | | | | |
|------|-------------------|--------------------|---------------|--------------------|--|--|
| | Sub-address Comm. | Confidential Comm. | Relayed Comm. | Turnaround Polling | | |
| 0 | • | - | - | - | | |
| 1 | Yes | - | - | - | | |
| 2 | • | Yes | • | - | | |
| 3 | Yes | Yes | • | - | | |
| 4 | - | • | Yes | - | | |
| 5 | Yes | • | Yes | - | | |
| 6 | - | Yes | Yes | • | | |
| 7 | Yes | Yes | Yes | - | | |
| 8 | • | • | • | Yes | | |
| 9 | Yes | | - | Yes | | |
| Α | • | Yes | - | Yes | | |
| В | Yes | Yes | - | Yes | | |
| С | • | - | Yes | Yes | | |
| D | Yes | • | Yes | Yes | | |
| E | - | Yes | Yes | Yes | | |
| F | Yes | Yes | Yes | Yes | | |

| Data | Definition | | | | | |
|------|-----------------|-----------------|--|--|--|--|
| | Advanced Comm. | Cover Sheet XMT | | | | |
| 0 | - | • | | | | |
| 1 | Report XMT | • | | | | |
| 2 | Check & Call | • | | | | |
| 3 | - | • | | | | |
| 4 | Memory Transfer | - | | | | |
| 5 | - | • | | | | |
| 6 | - | • | | | | |
| 7 | - | - | | | | |
| 8 | - | Yes | | | | |
| 9 | Report XMT | Yes | | | | |
| , A | Check & Call | Yes | | | | |
| В | | Yes | | | | |
| С | Memory Transfer | Yes | | | | |
| D | - | Yes | | | | |
| E | - | Yes | | | | |
| F | - | Yes | | | | |

| Data | | De | finition |
|------|----------------|---------------------------|----------|
| | Short Protocol | Standard/ Non-Standard | |
| 0 | • | Standard | |
| 1 | - | Standard | |
| 2 | • | Standard | |
| 3 | - | Standard | |
| 4 | - | Standard | |
| 5 | - | Standard | |
| 6 | - | Standard | |
| 7 | - | Standard | |
| 8 | - | Non-Standard | |
| 9 | В | Non-Standard | |
| Α | - | Non-Standard | |
| В | Ď | Non-Standard | |
| С | - | Non-Standard | |
| D | В | Non-Standard | |
| E | - | Non-Standard | |
| F | D | Non-Standard | |

| Data | Definition | | | | |
|------|------------|-----|--|--|--|
| - | Coding | ECM | | | |
| 0 | МН | - | | | |
| 1 | MR | - | | | |
| 2 | MMR | - | | | |
| 3 | JBIG | - | | | |
| 4 | - | - | | | |
| 5 | - | - | | | |
| 6 | - | • | | | |
| 7 | • | - | | | |
| 8 | МН | Yes | | | |
| 9 | MR | Yes | | | |
| Α | MMR | Yes | | | |
| В | JBIG | Yes | | | |
| С | • | Yes | | | |
| D | - | Yes | | | |
| E | - | Yes | | | |
| F | - | Yes | | | |

| Data | Definition | | | | | | |
|------|--------------------|------|--|--|--|--|--|
| | Symbol Rate (V.34) | V.34 | | | | | |
| 0 | - | - | | | | | |
| 1 | - | - | | | | | |
| 2 | - | - | | | | | |
| 3 | - | - | | | | | |
| 4 | - | - | | | | | |
| 5 | - | - | | | | | |
| 6 | - | - | | | | | |
| 7 | - | • | | | | | |
| 8 | 2400 sr | Yes | | | | | |
| 9 | - | Yes | | | | | |
| Α | 2800 sr | Yes | | | | | |
| В | 3000 sr | Yes | | | | | |
| С | 3200 sr | Yes | | | | | |
| D | 3429 sr | Yes | | | | | |
| E | - | Yes | | | | | |
| F | - | Yes | | | | | |

| Data | Definition | | | |
|------|-------------|--------------------|--|--|
| | Modem Speed | Modem Speed (V.34) | | |
| 0 | 2400 bps | - | | |
| 1 | 4800 bps | 2400 bps | | |
| 2 | 7200 bps | 4800 bps | | |
| 3 | 9600 bps | 7200 bps | | |
| 4 | TC 7200 bps | 9600 bps | | |
| 5 | TC 9600 bps | 12000 bps | | |
| 6 | 12000 bps | 14400 bps | | |
| 7 | 14400 bps | 16800 bps | | |
| 8 | - | 19200 bps | | |
| 9 | • | 21600 bps | | |
| Α | • | 24000 bps | | |
| В | - | 26400 bps | | |
| С | - | 28800 bps | | |
| D | | 31200 bps | | |
| E | - | 33600 bps | | |
| F | - | - | | |

| Data | | Defi | nition | |
|------|---|------|--------|--|
| | | | · | |
| 0 | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| A | | | | |
| В | | | | |
| С | | | | |
| D | | | | |
| E | • | | | |
| F | | | | |

5 Service Modes

5.1 Service Mode Table

The following service modes are provided to assist you in setting operational functions of the unit and determining the condition of the unit.

| No. | Service Mode | Description |
|-----|--------------------------------|---|
| 1 | Function Parameter Setting | Allows changes to the function parameters (the home position, etc). |
| 2 | Not used | |
| 3 | Print Parameter List / Reports | Prints the Function Parameter List, Page Memory Test, Printer Report, All Document File, Protocol Trace and Toner Order Form. |
| 4 | Modem Tests | Generates various binary tonal or DTMF signals, by the modem. |
| 5 | Diagnostic | Performs various hardware tests. |
| 6 | RAM Initialization | Initialize RAM and restore the default value of the function parameters. |
| 7 | LBP Service Mode | Changes the Printer Parameters (the home position, etc.). |
| 8 | Check & Call | Enters some information for Service Alert Report, Maintenance Alert Report and Toner Order Form. |
| 9 | System Maintenance | Update the firmware, backup the parameter settings. |

5.2 Service Mode 1 (Function Parameter Setting)

Use the following procedure to change the function parameters.

| Step | Operation or Unit Condition | LCD Display |
|------|--|---|
| 1 | Standby | |
| | | 12-JAN-1999 15:00 |
| | | 00% |
| | | |
| 2 | Press "FUNCTION" and then "7". | |
| | | SET MODE (1-6) |
| | | ENTER NO. OR VA |
| | | |
| 3 | Press "MONITOR" four times, then press "*". | |
| | | SERVICE MODE |
| | | ENTER NO. OR VA |
| | | |
| 4 | Press "1". | |
| | | PARAMETER (000-199) |
| | | ENTER PARAMETER #_ |
| | | |
| 5 | Enter the Function Parameter Number. | |
| | Ex: Changing the "ALARM STATUS" Enter "001" and press [SET]. | PARAMETER #001 |
| | | ALARM STATUS? |
| | | |
| 6 | Press "START". | |
| | | ALARM STATUS:Timer 1:OFF 2:Tmr 3:CONST |
| | | 1:OFF 2:TMF 3:CONST |
| | | |
| 7 | Enter the new setting value. | |
| | Ex: Enter "3" for Constant. | ALARM STATUS: Const. |
| | | 1:OFF 2:Tmr 3:CONST |
| 8 | Droop "CTADT" The new value will be abased and the next and the section of the se | |
| 8 | Press "START". The new value will be stored and the next parameter will be | |
| | displayed. | PARAMETER #002 |
| | | STOP COMM. JRNL? |
| | | |
| 9 | Repeat steps 4 through 7 to change other Function Parameters or Press | |
| | "STOP" twice to return to standby. | 12-JAN-1999 15:00 |
| | | 00% |
| | | |

Note

The following buttons provide these functions in the test mode:

"START": The new setting value is stored in the machine.

"V" : Scroll the function parameter number down.

"\lambda" : Scroll the function parameter number up.

| No. | Parameter (see Note 3) | Function Paramete Selections | Function |
|-------|------------------------|--|---|
| 000 | MON/TEL DIAL | 1 = Monitor | Selects whether the machine starts to TX |
| 000 | MON/TEL DIAL | 2 = TEL/DIAL | automatically during On-Hook dialing. |
| | | Z=TELIBIAL | (Monitor: Start to TX after pressing START) |
| | | | (TEL/DIAL: Start to TX automatically) |
| 001 | ALARM STATUS | 1 = OFF | Selects the No Paper or No Toner alarm status. |
| 001 | ALANIII STATOS | 2 = Timer (6 sec.) | OFF: Alarm is disabled. |
| | | 3 = Constant | Timer: Alarm will shut off after 6 seconds. |
| | | 3 = Constant | Constant : Alarm will not stop until "STOP" is |
| | | | pressed or the error is cleared/corrected. |
| 002 | STOP COMM. JRNL | 1 = Off | Selects whether the machine prompts to print the |
| 002 | STOP COMM. SHINL | 2 = On | COMM. Journal when the printout condition is set |
| | | 2 - 011 | to INC and STOP is pressed during |
| | | | communication. |
| 003 | CONTINUOUS POLL | 1 = Off | Selects whether the Continuous Polling feature is |
| 003 | (See Note 4) | 2 = Stn (Tx only) | enabled. |
| | (See Note 4) | 3 = Hub (Rx only) | Stn: |
| | | 3 = 1 ldb (lax offly) | Place the document(s) to be retrieved from a |
| | | | remote station and press [P8] key to store it into the |
| |] | | memory. |
| | • | | Hub: |
| | | | When the polling command is initiated, the machine |
| | | | will continuously poll documents from the remote |
| | | | stations until it is interrupted by pressing "STOP". |
| 004 | NUMERIC ID SET | 1 = Off (will not accept) | Selects whether the machine accepts and allows to |
| 004 | INOMIETTIC ID SET | 2 = On (accepts) | set or change the Numeric ID. |
| 005 | Not Used | 2 - On (docepts) | Set of change the Numeric ID. |
| | | d Norther (Northern 15) | Colorte the missible of displaying the ID |
| 006 | ID DISPLAY | 1 = Number (Numeric ID) | Selects the priority of displaying the ID. |
| - 007 | | 2 = Chara (Character ID) 1 = Preset station name | Colored About and and all the distriction of the |
| 007 | JNL COLUMN | 2 = Received ID | Selects the contents of the ID to display on the Journal. |
| | MONUTOR | 1 = Off | |
| 800 | MONITOR | 1 = Off 2 = On | Selects whether the Monitor is ON/OFF for |
| | | 2 = Of1 | monitoring fax signals. |
| | | - C# (Name al) | (FOR SERVICE USE ONLY) |
| 009 | DC LOOP | 1 = Off (Normal) | Selects a false Off Hook state for back to back |
| 048 | TV EVE | 2 = On (Off Hook) 00 = 0 dBm | communication test. |
| 010 | TX LEVEL | 00 = 0 dBm | Selects the TX signal output level, 0 to -15 dBm in 1 |
| | | ~ 45 | dBm steps. (Refer to Chapter 4.3) |
| | | 15 = -15 dBm 1 = -43 dBm | 0-1 |
| 011 | RX LEVEL | 1 = -43 dBm | Selects the receiving sensitivity of -33/-38/-43/-48 dBm. |
| | | 2 = -38 dBm 3 = -33 dBm | (Refer to Chapter 4.3) |
| | | 4 = -48 dBm | (neter to Chapter 4.3) |
| 010 | DTME LEVEL | . | Colored the DTMT output level 0 to 15 dDm in 1 |
| 012 | DTMF LEVEL | 00 = 0 dBm | Selects the DTMF output level, 0 to -15 dBm in 1 |
| | 1 | ~ 45 45 45 | dBm steps. |
| | | 15 = -15 dBm | |
| 013 | G3 RX EQL | 1 = 0dB | Selects the cable equalizer for G3 reception mode, |
| | | 2 = 4dB | 0dB, 4dB, 8dB or 12dB. |
| | 1 | 3 = 8dB | |
| | | 4 = 12dB | |
| 014 | G3 TX EQL | 1 = 0dB | Selects the cable equalizer for G3 transmission |
| | | 2 = 4dB | mode, 0dB, 4dB, 8dB or 12dB. |
| | 1 | 3 = 8dB | |
| | | 4 = 12dB | |
| 015 | Not Used | | |
| ~ | | | |
| 016 | | | |
| 017 | TX START | 1 = 2400 bps | Selects the transmission modem start speed, |
| | | 2 = 4800 bps | 14400/12000/TC9600/TC7200/9600/7200/4800/ |
| | | 3 = 7200 bps | 2400 bps. |
| | | 4 = 9600 bps | Note: |
| | 1 | 5 = TC7200 bps | This parameter is applicable only when |
| | | · · | |
| | | 6 = TC9600 bps | communicating with regular G3 machines. |
| | | · · | |

| | | Function Parameter T | |
|------|---------------------------------------|------------------------------------|---|
| No. | Parameter (see Note 3) | Selections | Function |
| 018 | RX START | 1 = 2400 bps | Selects the reception modern start speed, 14400/ |
| | | 2 = 4800 bps | 12000/TC9600/TC7200/9600/7200/4800/2400 bps |
| | | 3 = 7200 bps | Note: |
| | | 4 = 9600 bps | This parameter is applicable only when |
| | · · | 5 = TC7200 bps 6 = TC9600 bps | communicating with regular G3 machines. |
| | | 7 = 12000 bps | When communicating with Super G3 (V.34) |
| | | 8 = 14400 bps | machines, use Parameter No. 33. |
| 019 | ITU-T V.34 | 1 = Off | Selects whether the ITU-T V.34 is Off, On or Select |
| 013 | 1110-1 V.34 | 2 = On | (Select: Select whether the ITU-T V.34 is Off or On, |
| | | 3 = Select | when entering One-Touch/Abbreviated Dialing |
| | | S = GS . | Numbers or Manual Number Dialing.) |
| 020 | ITU-T ECM | 1 = Off (Invalid) | Select the ECM mode. |
| | | 2 = On (Valid) | |
| 021 | EP TONE | 1 = Off (without EP Tone) | Selects the echo protect tone on V.29 mode, On |
| | | 2 = On (with EP Tone) | (add) or Off (Not add). |
| | | | (Used when Echo Suppression is disabled.) |
| 022 | SIGNAL INTERVAL | 1 = 100 ms | Selects the time interval between the receiving |
| | | 2 = 200 ms | signal and the transmitting signal. |
| | | 3 = 500 ms | |
| 023 | TCF CHECK | 1 = Normal (Short) | Selects the TCF check interval Long/Short |
| | İ | 2 = Long | |
| 024 | CED FREQUENCY | 1 = 1080 Hz (non CCITT) | Selects the CED frequency 2100/1080 Hz |
| : | 1 | 2 = 2100 Hz | |
| 025 | COMM. START-UP | 1 = 1'st response | Selects the communication start-up condition (XMT |
| | <u> </u> | 2 = 2'nd response | and Poliing). |
| | | | (Used when Echo Suppression is disabled.) |
| 026 | NON-STANDARD | 1 = Off (Invalid) | Selects own mode (Panafax mode). |
| | | 2 = On (Valid) | |
| 027 | SHORT PROTOCOL B | 1 = Off (Invalid) | Selects the short protocol mode. |
| | | 2 = On (Valid) | |
| 028 | SHORT PROTOCOL D | 1 = Off (Invalid) | Selects the short protocol mode. |
| | | 2 = On (Valid) | |
| 029 | REMOTE DIAGNOSTICS | 1 = Off (will not accept) | Selects whether the machine accepts the Remote |
| | | 2 = On (accepts) | Diagnostics from the service station. |
| 030 | CED & 300 bps | 1 = 75 ms | Selects the pause interval between the CED and |
| | | 2 = 1 sec | the 300 bps signal. (Used when Echo Suppression |
| 031 | RTC = EOLx12 | 1 - O# (EOLys) | is disabled.) Selects the RTC signal, EOLx6 or EOLx12. |
| 031 | HIC = EOLXI2 | 1 = Off (EOLx6) 2 = On (EOLx12) | Selects the RTC signal, EOLX6 of EOLX12. |
| 033 | V34 TX START | 2400-33600bps | Selects the transmission modem start speed in |
| 032 | 1V34 1X 31AH1 | 2400-33000bps | V.34 communication, 33600-2400 bps. |
| 033 | V34 RX START | 2400-33600bps | Selects the receiving modern start speed in V.34 |
| 000 | VOTTEX STATE | 2400 00000ps | communication, 33600-2400 bps. |
| 034 | V34 TX Symbol Rate | 2400-3429sr | Selects the transmission symbol rate for V.34, |
| 004 | VOT TX Cymbol Hate | 2400 042331 | 3429/3200/3000/2800/2400 sr. |
| | | | Press "\" or "\" to select the symbol rate. |
| 035 | V34 RX Symbol Rate | 2400-3429sr | Selects receibing symbol rate for V.34, |
| | | | 3429/3429/3200/3000/2800/2400 sr. |
| | | | Press "\" or "\" to select the symbol rate. |
| 036 | Not Used | | |
| 037 | PROTOCOL DISPLAY | 1 = Off (not displayed) | Selects whether to display the modem speed |
| | | 2 = On (displayed) | during communication. (Press "\" or "\" to display) |
| 038 | Not used | 1 | |
| 039 | FLASH TIME | 5 = 50 ms | Selects the pause interval before activating the |
| | | ~ | Flash key. |
| | | 100 = 1000 ms | |
| 040 | E/F TIME (For Germany, | 5 = 50 ms | Selects the pause interval before activating the |
| | Austria and Switzerland only) | _ | Flash key. |
| | · · · · · · · · · · · · · · · · · · · | 100 = 1000 ms | |
| 041 | PAUSE TIME | 1 = 1 sec. | Selects the pause interval from 1 sec. ~ 10 sec. for |
| V-1 | | _ | dialing through a switchboard or for international |
| | | 10 = 10 sec. | calls. |
| 042 | Not used | | |
| 043 | REDIAL INTERVAL | 0 = no waiting | Selects the redial interval from 0 to 15 minutes in 1 |
| | | _ | minute steps. |
| | | 15 = 15 minutes | |
| | I | | |

| No. Parameter (see Note 3) O = no redial The second redial count from intervals. O = no redial Selects the redial count from intervals. O = 15 times O = 9 rings O = 9 rings O = 0 sec. O = 0 sec. Selects the ring detection count ring step intervals. Selects the ring detection count ring step intervals. Selects the on-hook time be communication calls in 1 sec. Selects the waiting interval from interval from interval from intervals. O = 9 rings O = 90 sec. O = 90 sec. O = 0 sec. Selects the on-hook time be communication calls in 1 sec. Selects the waiting interval from interval from intervals. Selects the on-hook time be communication calls in 1 sec. O = 90 sec. O = 90 sec. O = 0 sec. O = 0 sec. Selects the waiting interval from interval fr | ount from 1 to 9 rings in tween sequential cond step intervals. |
|--|---|
| - intervals. O45 RING DETECT COUNT | tween sequential cond step intervals. |
| 045 RING DETECT COUNT 1 = 1 ring 2 | tween sequential cond step intervals. or the response after |
| - 1 ring step intervals. 9 = 9 rings 046 ON-HOOK TIME 0 = 0 sec. 90 = 90 sec. 1 ring step intervals. Selects the on-hook time be communication calls in 1 sec. 90 = 90 sec. 1 = 1 sec. 90 = 90 sec. Selects the waiting interval from completing the dialing. 90 = 90 sec. | tween sequential cond step intervals. or the response after |
| 046 ON-HOOK TIME 0 = 0 sec. 90 = 90 sec. O47 RESPONSE WAIT 1 = 1 sec. 90 = 90 sec. Selects the on-hook time be communication calls in 1 sec. Selects the waiting interval from completing the dialing. 90 = 90 sec. | or the response after |
| ~ communication calls in 1 set 90 = 90 sec. O47 RESPONSE WAIT 1 = 1 sec. 7 completing the dialing. O48 Not used O49 Not used | or the response after |
| 047 RESPONSE WAIT 1 = 1 sec. 2 completing the dialing. 90 = 90 sec. | |
| - completing the dialing. 90 = 90 sec. | |
| 048 Not used 049 | |
| | |
| | dotootion lies if the |
| 2 = Rough line signal is out of regulation that the unit may detect the | n, set to "Rough" so |
| 051 INTERNATIONAL DT MODE 1 = Off Selects whether to distinguis | sh the 4-digit |
| (For Belgium, France and 2 = On international access code properties of the properti | |
| 052 PULSE RATE 1 = 10 pps Selects the dial pulse rate 10 pps 2 = 20 pps | 0/20 pps. |
| 053 Not used 054 | |
| 055 BUSY TONE CHECK 1 = Off 2 = On Selects whether to detect the | e Busy Tone. |
| 056 DIAL TONE CHECK 1 = Off Selects whether to detect dia | al tone before dialing |
| (Except for USA and Canada 2 = On the telephone number. version) | |
| 057 DC LOOP CHECK 1 = Off (will not check) Selects whether the unit che | cks the DC Loop |
| (Except for USA and Canada 2 = On (checks) during communication. | • |
| 058 COMM.JRNL +IMAGE 1 = Off (without image) Selects whether the machine | prints the COMM. |
| 2 = On (with image) Journal with image. | |
| 059 CONFIDENTIAL RCV 1 = Off (does not print out) Selects whether the machine | |
| REPORT 2 = On (prints out) CONFIDENTIAL RCV REPO | DRT. |
| 060 VERSION Indicates the ROM version. | |
| 061 TX/RX//PRT/CPY COUNTER TX/RX/PRT/CPY Displays the transmitted, rec copied document count. | , |
| 062 PRINT COUNTER 1 = Off Selects whether to print in the counter information that Function Parameter No. 61. | |
| 063 Not used | |
| ~ 069 | |
| 070 LINE ERROR 1 = 128 lines 1. | |
| 2 = 256 lines Selects the line disconnect of | ondition during recep- |
| 3 = 512 lines tion. If the number of line error | |
| 4 = 1024 lines the unit will disconnect the lines | <u> </u> |
| 5 = 2048 lines 2. | |
| 6 = Off (will not disconnect line) Selects the transmit conditio PIN. (Available if No.73 ERF "LINES") (See Note 1) | |
| 071 TOTAL ERROR 1 = 5% Selects the transmit conditio | n of RTP/PIP or RTN/ |
| 2 = 10% PIN. | |
| 3 = 15% (Available if No.73 ERROR I | DETECT is set to |
| 4 = 20% "RATE") (See Note 2) | |
| 072 CONTINUOUS ERROR 1 = Off (unlimited) Selects the continuous total | |
| 2 = 3 lines/STD or 12 lines in Standard mode | i |
| 3 = 6 lines/STD error exceeds this setting, th | |
| 4 = 12 lines/STD RTN/PIN. (Available if No.73 set to "RATE".) | |
| 073 ERROR DETECT 1 = Lines Selects the error detect conc 2 = Rate | lition Lines/Rate. |
| O74 RTN RECEIVE 1 = Disconnect Selects whether to disconnect 2 = Continue continue when "RTN" is rece | |

| Γ | | Function Parameter T | able |
|------------|------------------------|---|--|
| No. | Parameter (see Note 3) | Selections | Function |
| 075 | MH/MR/MMR/JBIG | 1 = MH (MH only) 2 = MR (MH or MR) 3 = MMR (MH or MR or MMR) 4 = JBIG | Selects the coding scheme. |
| 076 | Not used | | |
| 077 | RX JAM LENGTH | 1 = Off (unlimited) 2 = 2 m 3 = 8 m | Selects the maximum length of a received document that can be printed. |
| 078 079 | Not used | | |
| 080 | DOC TOP FEED | -5.0 mm ~ +5.0 mm | Adjusts the distance between the scanning sensor ON position and the scanning start position. |
| 081 | DOC END FEED | -5.0 mm +5.0 mm | Adjusts the distance between the scanning sensor OFF position and the scanning end position. |
| 082 | JAM LENGTH | 1 = 1 m 2 = 2 m 3 = 8 m 4 = Unlimited | Selects the maximum length of the document that can be scanned. |
| 083 | Not used | | |
| 084 | LINE AS NO PAPER | 1 = Ring (ring) 2 = Busy (keep line busy) | Selects whether to ring or send a busy tone to the remote station when the recording paper runs out or the unit cannot receive because of any trouble. |
| 085 | Not used | | |
| 086 | REDUCTION FINE | 1 = Off 2 = On | Selects whether the resolution is preset to Fine, when sending with reduction B4→A4. |
| 087 | DARKER LEVEL | 0 = Darkest Contrast | Selects the contrast level. |
| 088 | NORMAL LEVEL | 7~ | 0← →15 |
| 089 | LIGHTER LEVEL | 15 = Lightest Contrast | Darkest← →Lightest |
| 090 | (See Note 4) | 1 = Off 2 = On (Default) | Selects whether the machine will continue the transmission and send the remaining document(s) from the ADF when the memory reaches 100% (Memory Overflow) while storing the documents. |
| 091 | Not used | | |
| 092 | SMOOTHING | 1 = Off 2 = On | Selects whether the smoothing function is available. |
| 093 | Not used | | |
| 099 | | <u> </u> | |

Note 1: No. 070 LINE ERROR-Transmit condition of RTP/PIP or RTN/PIN

| Cional | | | Setting | | | |
|---------|--------|---------|---------|----------|-----------|--------|
| Signal | 1:128 | 2:256 | 3:512 | 4:1024 | 5:2048 | 6:Off |
| MCF/PIP | 0-31 | 0-63 | 0-127 | 0-255 | 0-511 | Always |
| RTP/PIP | 32-63 | 64-127 | 128-255 | 256-511 | 512-1023 | • |
| RTN/PIN | 64-127 | 128-255 | 256-511 | 512-1023 | 1024-2047 | |

Note 2: No. 071 TOTAL ERROR-Transmit condition of RTP/PIP or RTN/PIN

| Cianal | Setting | | | | |
|---------|---------|-------|-------|-------|--|
| Signal | 1:5% | 2:10% | 3:15% | 4:20% | |
| MCF/PIP | 0-2 | 0-4 | 0-7 | 0-9 | |
| RTP/PIP | 3-4 | 5-9 | 8-14 | 10-19 | |
| RTN/PIN | 5- | 10- | 15- | 20- | |

Note 3:

The default setting of parameters depends on the country's specifications or regulations. Print the Function Parameter List to confirm the default settings.

Note 4:

This parameter will be available as a running change in the future.

5.3 Service Mode 3 (Printout of Lists, Reports and Test Results)

From this Service Mode you can print the Function Parameter List, Page Memory Test, Printer Report, All Document File, Protocol Trace and the Toner Order Form.

5.3.1 Function Parameter List

A list of all Funcion Parameters can be printed by the following procedure.

| Step | Operation or Unit Condition | LCD Display |
|------|---|---------------------------------------|
| 1 | Standby | 12-JAN-1999 15:00 00% |
| 2 | Press "FUNCTION" and then "7". | SET MODE (1-6) ENTER NO. OR VA |
| 3 | Press "MONITOR" four times, then press "*". | SERVICE MODE ENTER NO. OR VA |
| 4 | Press "3". | PRINTOUT (1-7) 1:FUNC. PARAM. LIST |
| 5 | Press "START". | * PRINTING * FUNC. PARAMETER LIST |
| 6 | After printing is completed, the unit returns to the display in step 3. | SERVICE MODE ENTER NO. OR VA |
| 7 | Press "STOP" to return to standby. | 12-JAN-1999 15:00 00% |

Function Parameter List (Sample)

```
****** -FUNCTION PARAMETER- ***************** DATE 12-JAN-1999 **** TIME 12:07 *******
00 MON/TEL DIAL: [Monitor] Monitor
                                        50 RING DET MODE: [Normal] Normal
01 ALARM STATUS: [Timer] Timer
                                         51 -----
                                         52 PULSE RATE: [10pps] 10pps
02 STOP COMM.JRNL:[On] On
03 CONTINUOUS POLL:[Off] Off
                                         53 -----
04 NUMERIC ID SET:[On] On
                                         54 -----
                                         55 BUSY TONE CHECK: [On] On
0.5
                                         56 ------
06 ID DISPLAY: [Chara] Chara
07 JNL COLUMN: [Station] Station
                                         57 -----
                                         58 COMM. JRNL + IMAGE: [On] On
08 MONITOR: [Off] Off
09 DC LOOP:[Off] Off
                                         59 CONF.RCV REPORT: [On] On
                                         60 VERSION: UF-895 ALV02100AU
10 TX LEVEL: [-9dBm] -9dBm
11 RX LEVEL: [-43dBm] -43dBm
                                         61 TX/RX/PRT/CPY:000050/000058/000074/000016
12 DTMF LEVEL: [-5dBm] -5dBm
                                         62 PRINT COUNTER: [Off] Off
13 G3 RX EQL: [0dB] 0dB
                                         63 -----
14 G3 TX EQL: [0dB] 0dB
                                         64 -----
                                         65 -----
15 -----
16 -----
                                         66 -----
17 TX START: [14400bps ] 14400bps
18 RX START: [14400bps ] 14400bps
                                         67 -----
                                         68 -----
19 ITU-T V.34:[On] On
                                         69 -----
                                         70 LINE ERROR: [128] 128
20 ITU-T ECM: [On] On
21 EP TONE: [Off] Off
                                         71 TOTAL ERROR: [ 10] 10
22 SIG. INTERVAL: [500ms] 500ms
                                         72 CONTI. ERROR: [Off] Off
                                         73 ERROR DETECT: [Rate] Rate
23 TCF CHECK: [Normal] Normal
24 CED FREQ.:[2100Hz] 2100Hz
                                        74 RTN RECEIVE: [Discon] Discon
25 COMM. START-UP: [1'st] 1'st
                                         75 MH/MR/MMR/JBIG:[JBIG] JBIG
                                         76 -----
26 NON-STANDARD: [On] On
27 SHORT PROTOCOL B:[On] On
                                         77 RX JAM LENGTH: [2 m] 2 m
28 SHORT PROTOCOL D: [On] On
                                         78 -----
                                         79 -----
29 REMOTE DIAG.:[On] On
30 CED & 300bps:[75ms] 75ms
                                         80 DOC TOP FEED: [0.0mm] 0.0mm
                                         81 DOC END FEED: [0.0mm] 0.0mm
                                   81 DOC END FEED: [0.0mm]
82 JAM LENGTH: [ 2 m] 2 m
31 RTC=EQL x 12:[Off] Off
32 V34 TX START: [33600bps] 33600bps
33 V34 RX START: [33600bps] 33600bps
                                         83 -----
                                         84 LINE AS NOPAPER: [Ring] Ring
34 V34 TX SR:[3429sr] 3429sr
35 V34 RX SR:[3429sr] 3429sr
                                         85 -----
                                         86 REDUCTION FINE: [On] On
36
                                         87 DARKER LEVEL: [4] 4
37 PROTOCOL DISPLAY: [Off] Off
                                         88 NORMAL LEVEL: [8] 8
38 -----
39 FLASH TIME: [500] 500ms
                                         89 LIGHTER LEVEL: [12] 12
40 -----
                                         90 CONTINUE FROM ADF: [On] On
41 PAUSE TIME: [3sec] 3sec
                                         91 -----
                                         92 SMOOTHING: [On] On
42
43 REDIAL INTERVAL: [3min] 3min
                                         93 -----
44 REDIAL COUNT: [5] 5
                                         94 -----
45 RING DET. COUNT:[2] 2
                                         95 -----
46 ON-HOOK TIME: [5sec] 5sec
                                         96 -----
47 RESPONSE WAIT: [55sec] 55sec
                                         97 -----
48
                                         98 -----
   Note: The power must be reset for the new parameter settings to take effect.
                                                         -PANASONIC
```

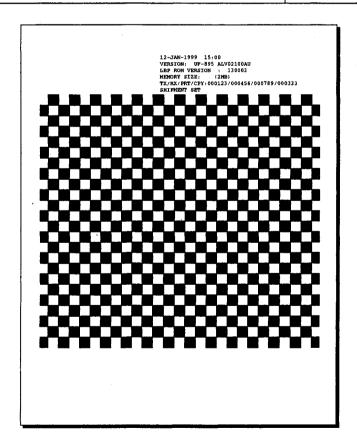
Note:

- 1. [] Factory Default
- 2. The contents of the Funcion Parameter List may vary depending on the country's regulations.
- 3. "*" mark will be shown on the left side of number when setting was changed from default.

5.3.2 Page Memory Test

A test pattern prints out for checking the page memory (IC120 and IC121 on the FCB PCB) and printer mechanism using the following procedure.

| Step | Operation or Unit Condition | LCD Display |
|------|---|------------------------------------|
| 1 | Standby | 12-JAN-1999 15:00 00% |
| 2 | Press "FUNCTION" and then "7". | SET MODE (1-6) ENTER NO. OR VA |
| 3 | Press "MONITOR" four times, then press "*". | SERVICE MODE ENTER NO. OR VA |
| 4 | Press "3". | PRINTOUT (1-7) 1:FUNC. PARAM. LIST |
| 5 | Press "3" and "START". | * PRINTING * PAGE MEMORY TEST |
| 6 | After printing is completed, the unit returns to the display in step 3. | SERVICE MODE ENTER NO. OR VA |
| 7 | Press "STOP" to return to standby. | 12-JAN-1999 15:00 00% |



5.3.3 Printer Report

All printer errors are logged on the Printer Report which can be printed by the following procedure.

| Step | Operation or Unit Condition | LCD Display |
|----------|---|-------------------------------|
| 1 | Standby | |
| | | 12-JAN-1999 15:00 |
| | | 00% |
| <u>L</u> | | |
| 2 | Press "FUNCTION" and then "7". | |
| | | SET MODE (1-6) |
| | | ENTER NO. OR VA |
| | D WIGHTON! | |
| 3 | Press "MONITOR" four times, then press "*". | CDDVITCH MODE |
| | | SERVICE MODE ENTER NO. OR V A |
| | | ENTER NO. OR VI |
| 4 | Press "3". | |
| 7 | 1 1000 0 . | PRINTOUT (1-7) |
| | | 1:FUNC. PARAM. LIST |
| | | |
| 5 | Press "4" and "START". | |
| | | * PRINTING * |
| | | PRINTER REPORT |
| | | |
| 6 | After printing is completed, the unit returns to the display in step 3. | |
| | | SERVICE MODE |
| | | ENTER NO. OR VA |
| | | |
| 7 | Press "STOP" to return to standby. | |
| | | 12-JAN-1999 15:00 |
| | | 00% |
| L | | |

| LAST PRINT | ERROR : 12-JAN | 15:38 No. 001-12 | | |
|---|-------------------------------|--|--------------------|------------|
| CUSTOMER IS | : 1234567 | 890123456 | | |
| FAX ROM VER LBP ROM VER | | ALV02100AU | | |
| TRANSMIT CO RECEIVE COU COPY COUNTY PRINT COUNTY | UNTER : 000398 ER : 001083 | | | |
| PRINT ERROR | 2.10-3 | AN-1999 15:38 NO.001 AN-1999 10:48 NO.001 AN-1999 15:23 NO.004 | -11 | |
| | | | ANASONIC - | |
| ******************** | ***-PANAFAX - | ****-1234 | 5678901234567890-* | ********** |
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1. Printer Error Code Table

| Error | Description of Problems | Cause |
|-------|---|--|
| Code | No marking datasta | |
| | No problem detected The Timing Sensor turned OFF before a certain period of | 1. Recording Paper Jam. |
| '' | time. | 2. Timing Sensor defective |
| | | 3. Incorrect paper size setting. |
| 11 | Timing Sensor did not turn ON within a certain period of time. | 1. Recording Paper misfeeding, Paper Feed Roller defective. |
| İ | (Original Cassette Feeder) | 2. Drive Clutch defective. |
| | | 3. Timing Sensor defective. |
| 12 | Timing Sensor did not turn On within a certain period of time. (250 sheet Optional Cassette Feeder) | Recording Paper misfeeding, Paper Feed Roller defective. Drive Clutch defective. |
| | (230 Sheet Optional Cassette Feeder) | 3. Timing Sensor defective. |
| 13 | Timing Sensor did not turn On within a certain period of time. | |
| | (500 sheet Optional Cassette Feeder) | 2. Drive Clutch defective. |
| | | 3. Timing Sensor defective. |
| 14 | Timing Sensor did not turn OFF within a certain period of time. | |
| | | Timing Sensor defective Incorrect paper size setting. |
| 15 | Paper Eject Sensor did not turn ON within a certain period of | Recording Paper Jam. |
| | time. | 2. Paper Eject Sensor defective. |
| 16 | Paper Eject Sensor did not turn OFF within a certain period of | |
| | time. | Paper Eject Sensor defective. |
| 17 | Timing Sensor detected paper while initializing the unit. | Recording Paper jammed in the unit. Timing Second defeating. |
| 10 | Denor Cossetta was removed while Decording Boner was | 2. Timing Sensor defective. |
| 18 | Paper Cassette was removed while Recording Paper was Feeding. | Recording Paper jammed in the unit. Paper Eject Sensor defective. |
| 1B | Paper Cassette was removed while Recording Paper was | Recording Paper Jam. |
| | Feeding. | in the second se |
| 22 | The temperature of the Fuser Roller remained low even after | Fuser Unit defective. |
| | the circuit was activated. | 2. LPC PCB defective. |
| 23 | Abnormaliy high Eyear Poller tamperature after the aircuit was | 3. LVPS defective. |
| 23 | Abnormally high Fuser Roller temperature after the circuit was de-activated. | 2. LPC PCB defective. |
| | ao aontatos. | 3. LVPS defective. |
| 24 | The temperature of the Fuser Roller was not controlled within | Fuser Unit defective. |
| | a certain margin. | 2. LPC PCB defective. |
| 05 | The section is a second | 3. LVPS defective. |
| 25 | Thermistor open. | Thermistor defective (Fuser Unit). LPC PCB defective. |
| 26 | Thermostat detected temperature over 200°C. | Thermostat defective (Fuser Unit). |
| | | 2. LPC PCB defective. |
| | | 3. LVPS defective. |
| 31 | | 1. LSU defective. |
| - 00 | rpm within a certain period of time. | 4 LCU defeative |
| 32 | The Polygon Motor did not maintain a constant speed of 10000 rpm. | 1. LSU defective. |
| 36 | HSYNC signal abnormal. | 1. LSU defective. |
| | · · · · · · · · · · · · · · · · · · · | 2. LPC PCB defective. |
| 41 | Fan does not rotate. | 1. Fan defective. |
| | | 2. LPC PCB defective. |
| 54 | A/D Converter error. | 1. LPC PCB defective. |
| 55 | Printer Motor Ready Signal abnormal. | Connector is not properly connected. Printer Motor defective. |
| | | 3. LPC PCB defective. |
| 61 | Unit detected "No Toner Cartridge". | Toner Cartridge not installed. |
| | _ | 2. Toner Sensor defective. |
| 63 | Unit detected "Printer Door Open". | Printer door is not closed. |
| | Lipit detected (this Cost - 41-9) | 2. ILS PCB defective. |
| 64 | Unit detected "No Cassette". | Cassette not installed or partially open. Cassette Sensor defective. |
| 65 | Unit detected "Out of Paper". | Cassette Sensor delective. Cassette(s) ran out of receiving paper. |
| 00 | Sint dotooted Out of Fapor . | 2. Paper Detect Sensor defective. |
| 68 | Jam Access Cover of Optional 250 Sheet Feeder is open. | Jam Access Cover Sensor of Optional 250 Sheet Feeder |
| | , | defective. |
| 69 | Jam Access Cover of Optional 500 Sheet Feeder is open. | Jam Access Cover Sensor of Optional 500 Sheet Feeder |
| | | defective. |
| 71 | Interface error occurs with the 500 sheet optional cassette. | CN101 is disconnected. CST3 PCB defective. |
| | | Z. US 13 FUD UBIBUTIVE. |

Note:

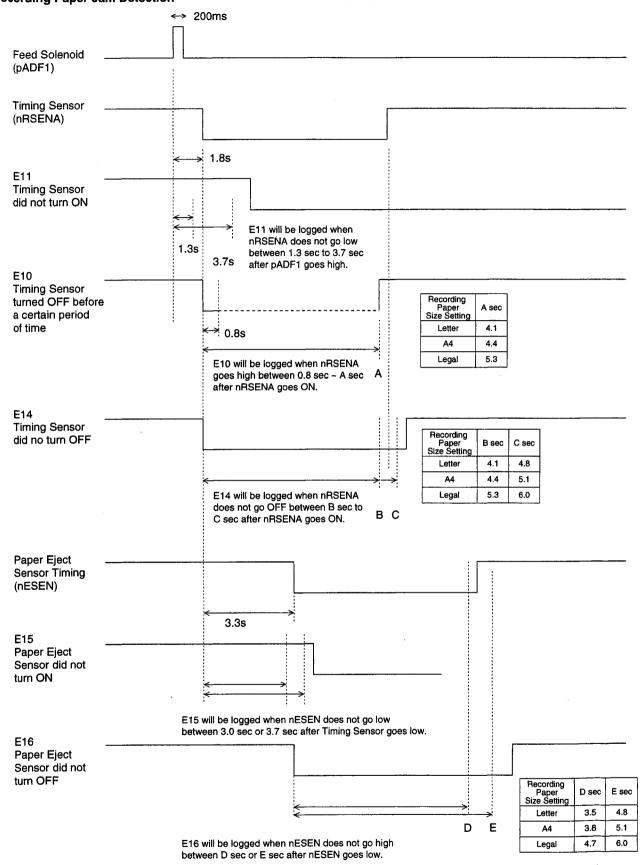
If an 021 series Error Code occurs, 021-25 (Thermistor Open) or 021-26 (Thermistor detected temperarure over 200 °C), a pre-programmed recovery safety software is activated to protect the unit and the service personnel during abnormal increase in temperature.

Once activated, this information is downloaded into the LPC PC Board's SRAM, disabling the Fuser Lamp and preventing it from turning ON again.

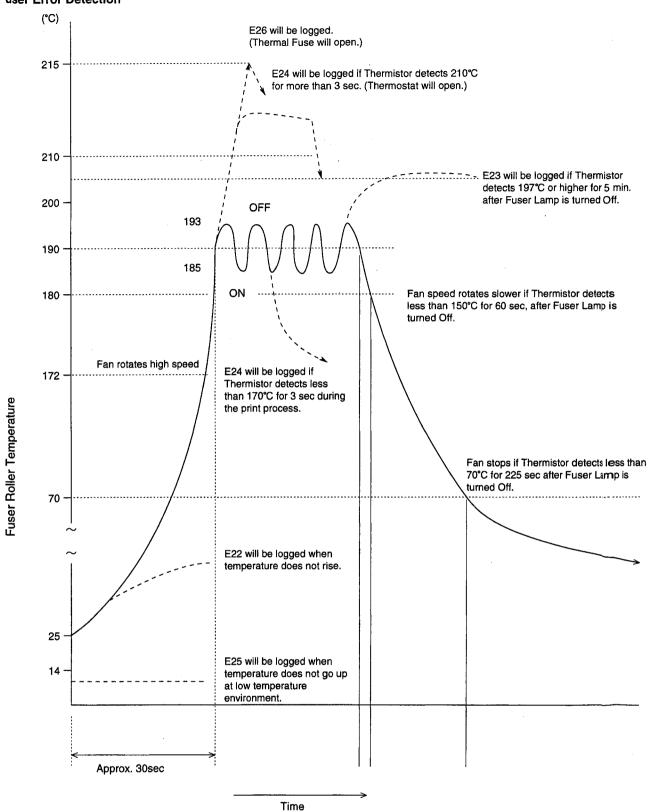
In order to reset this circuit, please follow the procedure below.

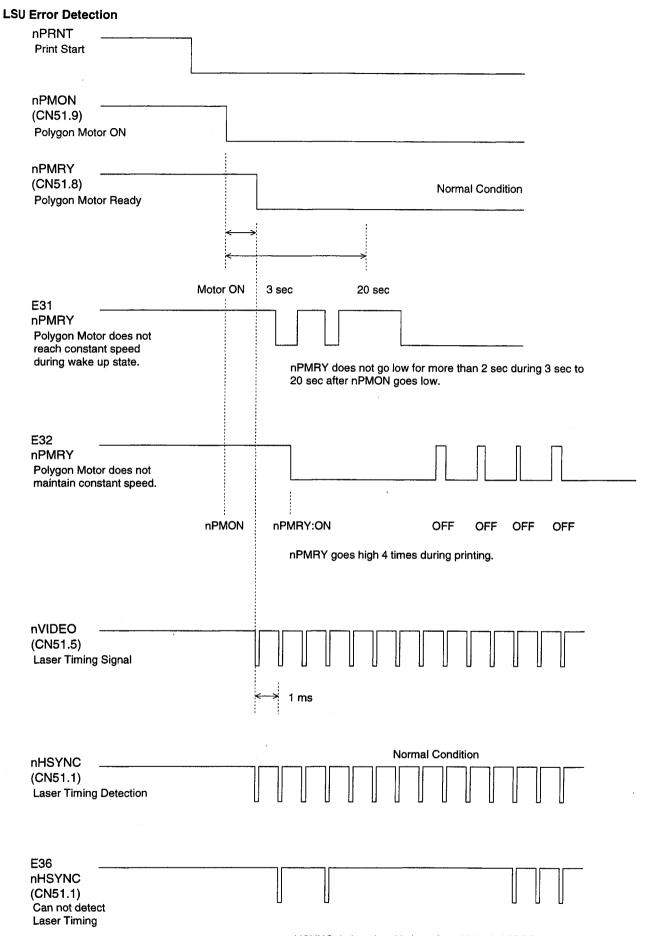
- 1) Reset the LBP Fuser by using Test Mode 7-1-2 (Section 5.6) and Power OFF/ON.
- 2) Replace the Thermistor or Fuser Unit. If the problem persists.
- 3) Replace the LPC PCB.

2. Printer Error Detail Explanation Recording Paper Jam Detection



Fuser Error Detection

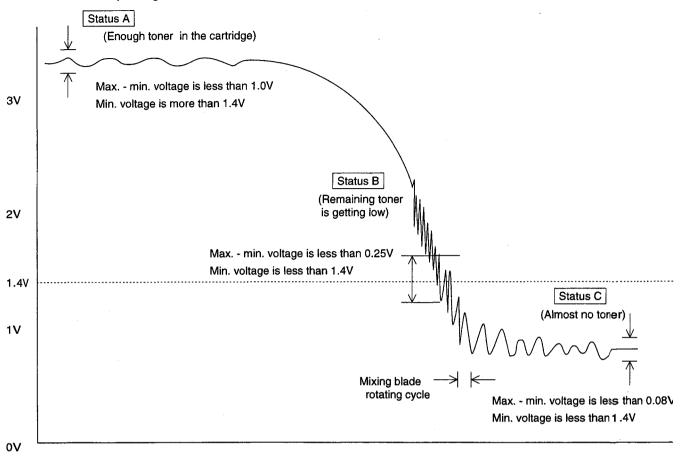




nHSYNC timing signal is less than 60% of nVIDEO signal.

Out of Toner Detection

Toner Sensor Output Signal



Toner Sensor output may change when the mixing blade passes above the Toner Sensor. Therefore the output signal has a max. voltage and min. voltage during mixing blade rotation cycle (6 sec).

E043

If the unit detects Status B 10 times during printing, the machine recognizes that the remaining toner is low and the display shows "REPLACE TONER CARTRIDGE".

E041

After detecting E043 and the LBP Print Available Counter Value reaches "0", the unit logs E041 (OUT OF TONER). **E45**

If the unit detects Status C when power is On, the unit logs E045 and displays "NO CARTRIDGE". The unit will recover when detecting Status A after a new toner cartridge is installed.

5.3.4 All Document Files

Print the document files from the Flash Memory. (This function will be available as a running change in the future)

| Step | Operation or Unit Condition | LCD Display |
|------|---|---------------------------------------|
| 1 | Standby | 12-JAN-1999 15:00 00% |
| 2 | Press "FUNCTION" and then "7". | SET MODE (1-6) ENTER NO. OR V A |
| 3 | Press "MONITOR" four times, then press "*". | SERVICE MODE ENTER NO. OR V A |
| 4 | Press "3". | PRINTOUT (1-7) 1:FUNC. PARAM. LIST |
| 5 | Press "5" and "START". | * PRINTING * ALL DOCUMENT FILES |
| 6 | After printing is completed, the unit returns to the display in step 3. | SERVICE MODE ENTER NO. OR VA |
| 7 | Press "STOP" to return to standby. | 12-JAN-1999 15:00 00% |

5.3.5 Protocol Trace

Print a Protocol Trace Report for the previous communication.

| Step | Operation or Unit Condition | LCD Display |
|------|---|---------------------------------------|
| 1 | Standby | 12-JAN-1999 15:00 00% |
| 2 | Press "FUNCTION" and then "7". | SET MODE (1-6) ENTER NO. OR VA |
| 3 | Press "MONITOR" four times, then press "*". | SERVICE MODE ENTER NO. OR VA |
| 4 | Press "3". | PRINTOUT (1-7) 1:FUNC. PARAM. LIST |
| 5 | Press "6" and "START". | * PRINTING * PROTOCOL TRACE |
| 6 | After printing is completed, the unit returns to the display in step 3. | SERVICE MODE ENTER NO. OR VA |
| 7 | Press "STOP" to return to standby. | 12-JAN-1999 15:00 00% |

| PROTOC | OL LOG. REPORT | ****** DATE 12-JAN-199 | 9 ***** TIME 16:56 ****** |
|---------------------------|--|--------------------------|---------------------------|
| MODE SPEED REMOTE O | : OK : ECH-TX (STANDARD : 9600bps OMS/L :APA.: DIE 00 CE 98 C4 8 :FA.: TSI 2B 20 20 20 3 30 36 36 36 36 36 36 36 36 36 36 36 36 36 | 0 12 8 37 2B 2B 2B 2B | |
| TOCAL | : NSF CSI DIS | CFR TSI DCS PIX | |
| REMOTE LOCAL | | -PANASONIC | |
| | ····PANAFAX -···· | | |
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5.3.6 Toner Cartridge Order FormThe Toner Cartridge Order Form can be printed out manually by the following procedure.

| Step | Operation or Unit Condition | LCD Display |
|------|---|---------------------------------------|
| 1 | Standby | 12-JAN-1999 15:00 00% |
| 2 | Press "FUNCTION" and then "7". | SET MODE (1-6) ENTER NO. OR V A |
| 3 | Press "MONITOR" four times, then press "*". | SERVICE MODE ENTER NO. OR V A |
| 4 | Press "3". | PRINTOUT (1-7) 1:FUNC. PARAM. LIST |
| 5 | Press "7" and "START". | * PRINTING * TONER ORDER FORM |
| 6 | After printing is completed, the unit returns to the display in step 3. | SERVICE MODE ENTER NO. OR VA |
| 7 | Press "STOP" to return to standby. | 12-JAN-1999 15:00 00% |

| > TON | ************************************** |
|------------------------------|---|
| ** | r facsimile machine is running low **** (1) Cartridge from your Authorized Dealer |
| F | Panafax Corp. (2) |
| | 201 111 5555 <i>(3)</i> 201 111 4444 <i>(4)</i> |
| Thank | you for your order. |
| | mer Name and Address |
| Ship to: | Bill to: |
| | |
| Attention: | |
| Phone No.: | |
| Customer ID: ABC COMPANY (5) | P.O. No.(if required): |
| Toner Cartridge: UG-3313 (6) | Serial No.: |
| Qu | uantity Required: |
| | |
| | |
| | |
| | |
| | |
| Print your name and title | Signature & Date |

Explanation of Contents

- Low Toner Message (Fixed)
 Dealer Name
 Toner Order Tel #
 Toner Order Fax #
 Customer ID
 Toner Cartridge No.

"The toner supply in your facsimile machine is running low"
Up to 25 digits
Up to 36 digits
Up to 16 characters (User Identification Code)

UG-3313

5.4 Service Mode 4 (Modem Test)

5.4.1 Binary Signal

This test mode is used to check the binary signal output. Signals can be output to the line using the following procedure.

| Step | Operation or Unit Condition | LCD Display |
|------|---|---|
| 1 | Standby | |
| | | 12-JAN-1999 15:00 |
| | | 00% |
| | | |
| 2 | Press "FUNCTION" and then "7". | |
| | | SET MODE (1-6) |
| | | ENTER NO. OR VA |
| | | |
| 3 | Press "MONITOR" four times, then press "*". | |
| | | SERVICE MODE |
| | | ENTER NO. OR VA |
| | | |
| 4 | Press "4". | |
| | | MODEM TEST (1-5) |
| | | 1:SIGNAL TEST |
| | | 100-100-100-100-100-100-100-100-100-100 |
| 5 | Press "START". | |
| | | SIGNAL TEST |
| | | IDLE (ENTER 1-9) |
| | | |
| . 6 | Enter the signal number (1-9) to select the binary signal. | |
| ' | | SIGNAL TEST |
| | | 300bps |
| | | |
| 7 | Press "CLEAR" to end the signal generation. To select another signal, | |
| | repeat step 6. | SIGNAL TEST |
| | | IDLE (ENTER 1-9) |
| | | |
| 8 | Press "STOP" twice to return to standby. | |
| | | 12-JAN-1999 15:00 |
| | | 00% |
| | | |

Binary Signal Table

| Number | Signals |
|--------|----------------|
| 1 | V21 300bps |
| 2 | V27ter 2400bps |
| 3 | V27ter 4800bps |
| 4 | V29 7200bps |
| 5 | V29 9600bps |
| 6 | V17 TC7200bps |
| 7 | V17 TC9600bps |
| 8 | V33 12000bps |
| 9 | V33 14400bps |

5.4.2 Tonal Signal

This test mode is used to check the tonal signal output. Signals can be output to the line using the following procedure.

| Step | Operation or Unit Condition | LCD Display |
|------|--|-----------------------------------|
| 1 | Standby | 12-JAN-1999 15:00 00% |
| 2 | Press "FUNCTION" and then "7". | SET MODE (1-6) ENTER NO. OR VA |
| 3 | Press "MONITOR" four times, then press "*". | SERVICE MODE ENTER NO. OR VA |
| 4 | Press "4". | MODEM TEST (1-5) 1:SIGNAL TEST |
| 5 | Press "2" and "START". | TONAL TEST IDLE (ENTER 1-7) |
| 6 | Enter the signal number (1-7) to select the binary signal. | TONAL TEST |
| 7 | Press "CLEAR" to end the signal generation. To select another signal, repeat step 6. | TONAL TEST IDLE (ENTER 1-7) |
| 8 | Press "STOP" twice to return to standby. | 12-JAN-1999 15:00 00% |

Tonal Signal Table

| Number | Signals |
|--------|---------|
| 1 | 462 Hz |
| 2 | 1080 Hz |
| 3 | 1100 Hz |
| . 4 | 1300 Hz |
| 5 | 1650 Hz |
| 6 | 1850 Hz |
| 7 | 2100 Hz |

5.4.3 DTMF Signal

This test mode is used to check the DTMF (Dual Tone Multi Frequency) signal output. The DTMF signal can be generated using the following procedure.

| Step | Operation or Unit Condition | LCD Display |
|------|---|--------------------------------|
| 1 | Standby | 12-JAN-1999 15:00 00% |
| 2 | Press "FUNCTION" and then "7". | SET MODE (1-6) ENTER NO. OR VA |
| 3 | Press "MONITOR" four times, then press "+". | SERVICE MODE |
| 4 | Press "4". | MODEM TEST (1-5) |
| 5 | Press "3" and "START". | 1:SIGNAL TEST |
| | | DTMF TEST (1-2) 1.SINGLE |
| 6a | Press "START" for DTMF Single Tone Generation. | SINGLE TONE ENTER (1-8) |
| 7a | Enter the signal number (1-8) to select the DTMF signal. | SINGLE TONE 697Hz |
| 6b | Press "2" and "START" for Dual Tone Generation. | DUAL TONE ENTER (0-#) |
| 7b | Enter the signal number (0-#) to select the DTMF Dual tone. | DUAL TONE (0) |
| 8 | Press "CLEAR" to end the signal generation. To select another signal, repeat step 7a or 7b. | SINGLE TONE ENTER (1-8) |
| 9 | Press "STOP" twice to return to standby. | 12-JAN-1999 15:00 00% |

DTMF Single Tone Table

| Number | DTMF Signal Tones |
|--------|-------------------|
| 1 | 697 Hz |
| 2 | 770 Hz |
| 3 | 852 Hz |
| 4 | 941 Hz |
| 5 | 1209 Hz |
| 6 | 1336 Hz |
| 7 | 1477 Hz |
| 8 | 1633 Hz |

DTMF Dual Tone Table

| Number | DTMF Dual Tones |
|--------|------------------|
| 0 | 941 Hz + 1336 Hz |
| 1 | 697 Hz + 1209 Hz |
| 2 | 697 Hz + 1336 Hz |
| 3 | 697 Hz + 1477 Hz |
| 4 | 770 Hz + 1209 Hz |
| 5 | 770 Hz + 1336 Hz |
| 6 | 770 Hz + 1477 Hz |
| 7 | 852 Hz + 1209 Hz |
| 8 | 852 Hz + 1336 Hz |
| 9 | 852 Hz + 1477 Hz |
| * | 941 Hz + 1209 Hz |
| # | 941 Hz + 1477 Hz |

5.4.4 Binary Signal (V.34)

This test mode is used to check the binary signal output. Signals can be output to the line using the following procedure. (V.34)

| Step | Operation or Unit Condition | LCD Display |
|------|--|---------------------------------------|
| 1 | Standby | 12-JAN-1999 15:00 00% |
| 2 | Press "FUNCTION" and then "7". | SET MODE (1-6) ENTER NO. OR VA |
| 3 | Press "MONITOR" four times, then press "*". | SERVICE MODE ENTER NO. OR VA |
| 4 | Press "4". | MODEM TEST (1-5) 1:SIGNAL TEST |
| 5 | Press "5" and "START". | V.34 MODEM TEST ENTER NO |
| 6 | Enter the signal number (01-61) and press [SET] to select the binary signal. | V.34 MODEM TEST V34 2400sr 2400bps |
| 7 | Press "CLEAR" to end the signal generation. To select another signal, repeat step 6. | V.34 MODEM TEST ENTER NO |
| 8 | Press "STOP" twice to return to standby. | 12-JAN-1999 15:00 00% |

Binary Signal Table

| Number | Signals | | | Number | Signals | |
|--------|-----------------------|----|-----------------------|--------|-----------------------|--|
| 01 | V34 2400 sr 2400 bps | 22 | V34 3000 sr 9600 bps | 43 | V34 3429 sr 4800 bps | |
| 02 | V34 2400 sr 4800 bps | 23 | V34 3000 sr 12000 bps | 44 | V34 3429 sr 7200 bps | |
| 03 | V34 2400 sr 7200 bps | 24 | V34 3000 sr 14400 bps | 45 | V34 3429 sr 9600 bps | |
| 04 | V34 2400 sr 9600 bps | 25 | V34 3000 sr 16800 bps | 46 | V34 3429 sr 12000 bps | |
| 05 | V34 2400 sr 12000 bps | 26 | V34 3000 sr 19200 bps | 47 | V34 3429 sr 14400 bps | |
| 06 | V34 2400 sr 14400 bps | 27 | V34 3000 sr 21600 bps | 48 | V34 3429 sr 16800 bps | |
| 07 | V34 2400 sr 16800 bps | 28 | V34 3000 sr 24000 bps | 49 | V34 3429 sr 19200 bps | |
| 08 | V34 2400 sr 19200 bps | 29 | V34 3000 sr 26400 bps | 50 | V34 3429 sr 21600 bps | |
| 09 | V34 2400 sr 21600 bps | 30 | V34 3000 sr 28800 bps | 51 | V34 3429 sr 24000 bps | |
| .10 | V34 2800 sr 4800 bps | 31 | V34 3200 sr 4800 bps | 52 | V34 3429 sr 26400 bps | |
| 11 | V34 2800 sr 7200 bps | 32 | V34 3200 sr 7200 bps | 53 | V34 3429 sr 28800 bps | |
| 12 | V34 2800 sr 9600 bps | 33 | V34 3200 sr 9600 bps | 54 | V34 3429 sr 31200 bps | |
| 13 | V34 2800 sr 12000 bps | 34 | V34 3200 sr 12000 bps | 55 | V34 3429 sr 33600 bps | |
| 14 | V34 2800 sr 14400 bps | 35 | V34 3200 sr 14400 bps | 56 | ANSam | |
| 15 | V34 2800 sr 16800 bps | 36 | V34 3200 sr 16800 bps | 57 | CM | |
| 16 | V34 2800 sr 19200 bps | 37 | V34 3200 sr 19200 bps | 58 | JM | |
| 17 | V34 2800 sr 21600 bps | 38 | V34 3200 sr 21600 bps | 59 | INFO0c & TONEB | |
| 18 | V34 2800 sr 24000 bps | 39 | V34 3200 sr 24000 bps | 60 | INFO0c & TONEA | |
| 19 | V34 2800 sr 26400 bps | 40 | V34 3200 sr 26400 bps | 61 | PPh & AC & ALT | |
| 20 | V34 3000 sr 4800 bps | 41 | V34 3200 sr 28800 bps | | | |
| 21 | V34 3000 sr 7200 bps | 42 | V34 3200 sr 31200 bps | | | |

5.5 Service Mode 5 (Diagnostic)

5.5.1 **CCD Test**

This test is used to check the CCD.
Use the following procedure to initiate the test.

| Step | Operation or Unit Condition | LCD Display |
|------|---|-----------------------------------|
| 1 | Standby | 12-JAN-1999 15:00 00% |
| 2 | Press "FUNCTION" and then "7". | SET MODE (1-6) ENTER NO. OR VA |
| 3. | Press "MONITOR" four times, then press "*". | SERVICE MODE ENTER NO. OR VA |
| 4 | Press "5". | DIAGNOSTIC (1-3) 1:CCD TEST |
| 5 | Press "START". The scanner will be active. | 1:CCD TEST * CHECK NOW * |
| 6 | Press "STOP". | SERVICE MODE ENTER NO. OR VA |
| 7 | Press "STOP" to return to standby. | 12-JAN-1999 15:00 00% |

5.5.2 LCD / LED Test

This test is used to check the LCD and LEDs. Use the following procedure to initiate the test.

| Step | Operation or Unit Condition | LCD Display |
|------|--|------------------------------------|
| 1 | Standby | 12-JAN-1999 15:00 00% |
| 2 | Press "FUNCTION" and then "7". | SET MODE (1-6) ENTER NO. OR V A |
| 3 | Press "MONITOR" four times, then press "*". | SERVICE MODE ENTER NO. OR VA |
| 4 | Press "5". | DIAGNOSTIC (1-3) 1:CCD TEST |
| 5 | Press "2" and "START". 1) LCDs display as shown at right. 2) All LEDs will light. | 2:LCD/LED TEST * CHECK NOW * |
| 6 | Press "STOP". | |
| | | SERVICE MODE ENTER NO. OR VA |
| 7 | Press "STOP" to return to standby. | 12-JAN-1999 15:00 00% |

5.6 Service Mode 6 (RAM Initialization)

Initializes RAM and restores the Function Parameters to their default values.

Note:

This operation should be performed when the unit is first installed.

| Step | Operation or Unit Condition | LCD Display |
|------|--|---------------------------------------|
| 1 | Standby | 12-JAN-1999 15:00 00% |
| 2 | Press "FUNCTION" and then "7". | SET MODE (1-6) ENTER NO. OR VA |
| 3 | Press "MONITOR" four times, then press "*". | SERVICE MODE ENTER NO. OR V A |
| 4 | Press "6". | * RAM INITIALIZE * ENTER NO. OR V A |
| 5 | Press "\" or "\" to select the initialization mode. (See Note) | * RAM INITIALIZE * LOGO/ID/PSWD CLEAR |
| 6 | Press "START". | LOGO/ID/PSWD CLEAR * COMPLETED * |
| 7 | Return to step 3 and press "STOP" to return to standby. | 12-JAN-1999 15:00 00% |

RAM Initialization Table

| No. | Initialize Mode | Description | |
|-----|----------------------|--|--|
| 99 | SHIPMENT SET (A) | Deletes all setting information, except parameter number 80 and 81, then set default values. | |
| 98 | SHIPMENT SET (B) | Deletes all setting information, except parameter number 61, 80 and 81, then set default values. | |
| 97 | FLASH MEMORY CLEAR | Deletes all information in the Flash Memory. | |
| 16 | LBP ERROR LOG CLEAR | Clears the Printer Error Log. | |
| 15 | LOGO/ID/PSWD CLEAR | Clears the Logo, ID, Polling Password. | |
| 14 | ALL JOB CLEAR | Clears all Jobs stored in Flash Memory. | |
| 13 | PROGRAM DIAL CLEAR | Clears the Program keys. | |
| 12 | ABBR. DIAL CLEAR | Clears the One-touch and ABBR. Numbers. | |
| 11 | JOURNAL CLEAR | Clears the Journal contents. | |
| * | PARAMETER INITIALIZE | Restores the Fax and Function Parameters to default values. | |

5.7 Service Mode 7 (LBP Service Mode)

This test mode is used to change printer parameters and verify printer information. Use the following procedure to change printer parameter.

| Step | Operation or Unit Condition | LCD Display |
|------|---|--|
| 1 | Standby | 12-JAN-1999 15:00 00% |
| 2 | Press "FUNCTION" and then "7". | SET MODE (1-6) ENTER NO. OR VA |
| 3 | Press "MONITOR" four times, then press "*". | SERVICE MODE ENTER NO. OR VA |
| 4 | Press "7". | LP SERVICE MODE (1-2) 1:LBP PARAMETER SET |
| 5 | Press "START" for printer parameter settings. Press "2" and "START" to get the printer information. Ex: Enter "START" for printer parameter settings. | LBP PARAMETER SET 1.PRINTER COUNTER |
| 6 | Press "3" and "START". Then enter the number of pages. Ex: Enter "50" and "START". | LBP PARAMETER SET 3.OUT OF TONER |
| 7 | Repeat step 5 through 6 to request operation, or press "STOP" to return to standby. | 12-JAN-1999 15:00 00% |

| Sub-Code | | Parameter Name | Description | | |
|----------|-----|-----------------|---|--|--|
| 1 | 1 | Printer Counter | Displays and resets the printer and cassette(s) counters. | | |
| | 2 | LBP Fuser Reset | Clears the LBP fuser error. | | |
| | 3 | Out of Toner | Sets the number of pages to print after low toner is detected. | | |
| 2 | V/\ | LBP ROM Version | Shows the LBP ROM Version. | | |
| | | | Shows the remaining number of allowable printable pages after low toner has been detected (Counter Only). | | |
| | | | Shows the page memory capacity. | | |

5.8 Service Mode 8 (Check & Call)

5.8.1 Overview

This feature enables the Authorized Servicing Dealers to manage and improve the Fax machine maintenance to their customers by alerting them of equipment problems. It also can be used as a Supply Sales Tool by alerting the Dealer that the unit is running Low on Toner. The function overview is as follows:

- 1. The machine's printer error information is stored in the Printer Report.
- 2. The printer report can be manually printed when required.
- 3. When printer errors occurs, the unit can automatically transmit the Service Alert Report to the pre-registered telephone number.
- 4. When the unit detects Low Toner, it can automatically transmit the Maintenance Alert Report to the pre-registered telephone number.
- 5. When the unit detects Low Toner, it can automatically print out the Toner Order Form with pre-registered order information.

5.8.2 Printer Reports

- Conditions under which a report can be printed or transmitted
 - 1. Manual print
 - The Printer Report can be printed by Service Mode 3. (See page 161)
 - 2. Automatic transmission/printout
 - 3. Service Alert Report

When the unit detects an Emergency Printer Error, the unit will immediately transmit the Service Alert Report to the pre-registered telephone number. However, the unit will not transmit the Service Alert Report if it finds the same error within the same date in the error log.

4. Maintenance Alert Report

When the unit detects Low Toner, the unit can automatically transmit the Maintenance Alert Report to the pre-registered telephone number. Refer to the Printer Error Code Table.

5. Toner Order Form

When the unit detects Low Toner, the unit can automatically print the Toner Order Form with the pre-registered order information.

Note:

The Service and Maintenance Alert Reports are managed in the same manner as the normal memory transmission (Retry, Incomplete, File List, Display while it is transmitting, Journal).

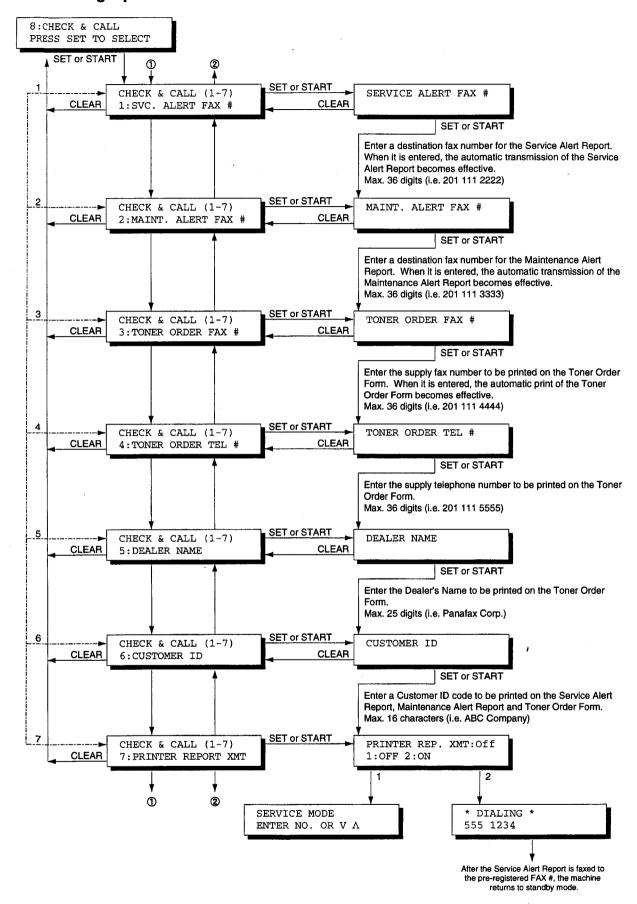
Printer Error Code Table

| Into. | Printer Error Code | LED/LCD | Log | Tx Report | Condition | Content of Error |
|-------|-----------------------|--------------------|----------|--------------|-----------|---|
| | | | only | | | |
| 001- | 11-13 | JAM | O | | R/C | Paper Jam 1st, 2nd or 3rd Cassette. |
| 003 | | | | | 1 | |
| 007 | 14-19 | JAM | 0 | | R/C | Paper Exit Error. |
| 010 | 00 | NO PAPER | | | R/C | No Paper in 1st, 2nd or 3rd Cassette, or wrong Guide Setting. |
| 011 | 64,65 | NO PAPER | | 1 | s | No 1st, 2nd or 3rd Cassette, or No Paper in |
| " | 04,03 | NO FAI LIT | | | | 1st, 2nd or 3rd Cassette. |
| 021 | 22-26,41 | | 0 | 0 | R/C | Fuser Problem / Fan Problem / LP Thermistor disconnected Problem. |
| 041 | 62 | TONER | 0 | | S/R/C | No Toner |
| 043 | 00 | TONER | 0 | х | S/R/C | Low Toner Warning |
| 045 | 61 | TONER | 0 | | S | No Toner Cartridge |
| 051 | 00 | | 0 | 0 | S/R/C | Printer Error |
| 054 | 31,32,36 | | ō | 0 | R/C | LSU Problem |
| 055 | 51- 55,58,00 | | 0 | 0 | S/R/C | No response from LP Controller |
| 060 | 33,53,00 | | <u> </u> | | <u> </u> | Rx Door Open |
| 870 | | MEMORY OVERFLOW | | | T/R | Memory Overflow detected |

Note:

- 1. Transmission Report: o = Service Alert Teport, x = Maintenance Alert Report
- 2. Condition: R = Receive Mode, C = Copy Mode, S = Standby Mode, T = Transmit Mode

5.8.3 Setting Operation



Note

1. Service Alert Report

To enable the automatic transmission of Service Alert Report, enter the destination fax telephone number in the "SERVICE ALERT FAX #" field. When a printer error occurs, the Service Alert Report is transmitted to the designated number automatically. A blank entry in this field, disables the Automatic transmission of the Service Alert Report.

2. Maintenance Alert Report

To enable the automatic transmission of Maintenance Alert Report, enter the destination fax telephone number in the "MAIN ALERT FAX #" field. When a printer error occurs, the Maintenance Alert Report is transmitted to the designated number automatically. A blank entry in this field, disables the Automatic transmission of the Maintenance Alert Report.

3. Toner Order Form

To enable the automatic printout of the Toner Order Form, enter the destination fax telephone numbers in the "Toner Order FAX #" field. When a low toner error occurs, the Toner Order Form is printed automatically. A blank entry in this field, disables the automatic printout of the Toner Order Form.

4. SERVICE ALERT FAX #, this would be the fax telephone number for the Dealer's Service Department. MAINT. ALERT FAX #, this could be the fax telephone number for the Dealer's Supply Sales Desk. TONER ORDER FAX #, this could be the fax telephone number for the Dealer's Supply Sales Desk. TONER ORDER TEL #, this could be the voice telephone number for the Dealer's Supply Sales Desk. DEALER NAME, this name is printed on the Toner Order Form.

CUSTOMER ID, to identify your customer, enter up to 16 characters user code in this field. This name will be printed on the Service Alert Report, Maintenance Alert Report and Toner Order Form.

5.8.4 SERVICE ALERT REPORT FORMAT

```
******* TIME 12:14 ******
                 > SERVICE ALERT REPORT <
                   (1)
                                 (2) (3)
LAST PRINT ERROR: 06-01-99 12:10 No.999-00
              : ABC COMPANY (4)
CUSTOMER ID
FAX ROM VERSION : UF-895 ALV02100AU (5)
LBP ROM VERSION : 130003 (6)
TRANSMIT COUNTER: 999999 (7)
RECEIVE COUNTER : 999999
COPY COUNTER
               : 999999
PRINT COUNTER
             : 999999
               : 10-01-99 12:10 No.999-00 (8)
PRINT ERROR
               : 09-01-99 10:15 No.999-00
                  08-01-99 13:48 No.999-00
               :
               : 15-12-98 17:10 No.999-00
               : 14-12-98 12:10 No.999-00
: 05-12-98 08:10 No.999-00
                                        -LOGO PANASONIC
********************** -CHARACTER ID - ***** -31415926535897932384-***********
```

Explanation of Contents

(1) Date & Time when a problem occurred

(2) Information Code

(3) Printer Error Code

(4) Customer ID

(5) Fax ROM Version

(6) LBP ROM Version

(7) Transmission / Reception / Copy / Print Counters

(8) Print Error

Refer to Service Manual

Up to 16 characters (User Identification Code)

Last 30 records (Latest on top)

5.8.5 MAINTENANCE ALERT REPORT FORMAT

Explanation of Contents

(1) Low Toner Message (Fixed)

(4) Customer ID

(5) Fax ROM Version

(6) LBP ROM Version

(7) Transmission / Reception / Copy / Print Counters

"MACHINE IS RUNNING OUT TONER"
Up to 16 characters (User IdentificationCode)

5.9 Service Mode 9 (System Maintenance)

5.9.1 Overview

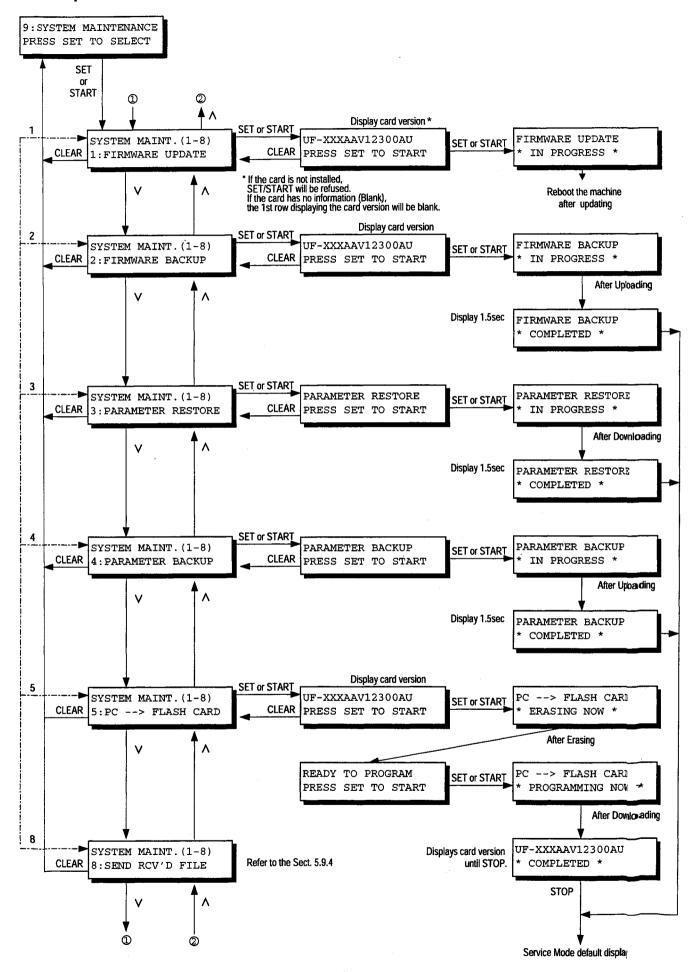
This Service Mode is used to maintain and/or update the firmware of the machine. Use the following procedure for System Maintenance.

| Step | Operation or Unit Condition | LCD Display |
|------|---|---------------------------------------|
| 1 | Standby | 12-JAN-1999 15:00 |
| | | 00% |
| 2 | Press "FUNCTION" and then "7". | SET MODE (1-6) |
| | | ENTER NO. OR VA |
| 3 | Press "MONITOR" four times, then press "*". | SERVICE MODE |
| | | ENTER NO. OR VA |
| 4 | Press "9". | SYSTEM MAINT. (1-8) |
| | | 1:FIRMWARE UPDATE |
| 5 | Press "START" to update the firmware. | |
| | Enter No. or press "∨" or "∧" to select the maintenance to be performed. Ex: Enter "2". | SYSTEM MAINT. (1-8) 2:FIRMWARE BACKUP |
| 6 | Press "START" and "SET". | |
| | | FIRMWARE BACKUP * IN PROGRESS * |
| 7 | After the backup is completed, repeat step 5 through 6 | |
| | to request an operation. | SERVICE MODE ENTER NO. OR VA |
| 8 | Press "STOP" to return to standby. | 10, 727 1000, 15,00 |
| | | 12-JAN-1999 15:00 00% |

System Maintenance Table

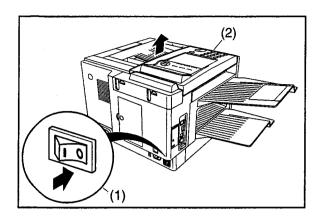
| No. | Maintenance Mode | Description | |
|-----|--------------------|---|--|
| 1 | FIRMWARE UPDATE | Updates the firmware in the machine with the Master Firmware Card. | |
| 2 | FIRMWARE BACKUP | Creates a Backup Card of the machine's firmware. (A 2 MB or higher Flash Memory Card is required) | |
| 3 | PARAMETER RESTORE | Restores the parameters from the Backup Card into the machine. | |
| 4 | PARAMETER BACKUP | Creates a Backup Card of the machine's parameters. (A 1 MB or higher Flash Memory Card is required) | |
| 5 | PC → FLASH CARD | Creates a Master Firmware Card using the Firmware Update Kit. (A 2 MB or higher Flash Memory Card is required) | |
| 8 | SEND RECEIVED FILE | Transfers documents from memory to another fax machine during a fatal printer error. | |

5.9.2 Operation

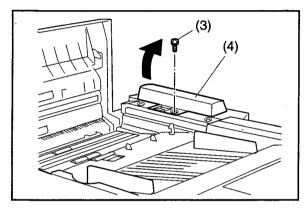


5.9.3 Recovering From Firmware Update Failure

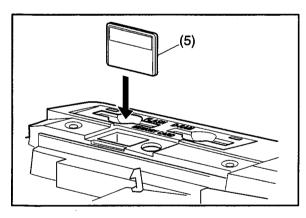
If the Firmware Update is interrupted before completion, the machine will not be able to progress into the Standby Mode and the LCD display will remain Blank. If this happens, please follow the steps described below to recover from a failed firmware update.



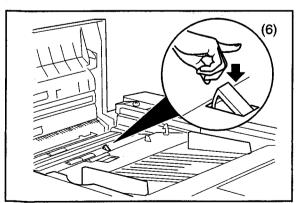
- (1) Turn the Power Switch "OFF".
- (2) Open the Control Panel Unit.



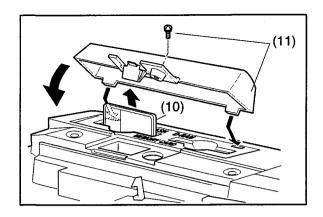
- (3) 1 Screw (B1).
- (4) Remove the Memory Card Cover (115).



(5) Insert the **Flash Memory Card** with the Firmware Code programmed into the card.



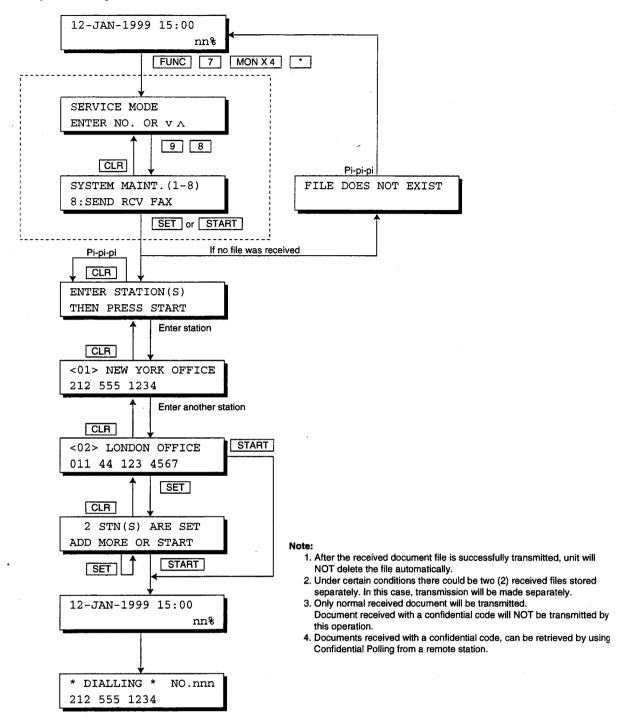
- (6) Activate the **Read Point Sensor** with your finger and turn the **Power Switch** "ON".
- (7) Wait approximately 10 seconds, release the **Read Point** Sensor and close the **Control Panel Unit** (ADF).
- (8) Allow the unit to complete the Firmware Update (approx. 1-minute). When completed, the unit will reboot and progress to the Standby Mode.



- (9) Turn the Power Switch "OFF".
- (10) Remove the Flash Memory Card.
- (11) Re-install the Memory Card Cover.
- (12) 1 Screw (B1).
- (13) Close the Control Panel Unit.
- (14) Turn the Power Switch "ON".
- (15) Perform Parameter Initialization.

5.9.4 Send Received File

This function is the relief mode which makes it possible to retrieve memory received documents during a fatal printer error by transferring the documents to another fax machine.



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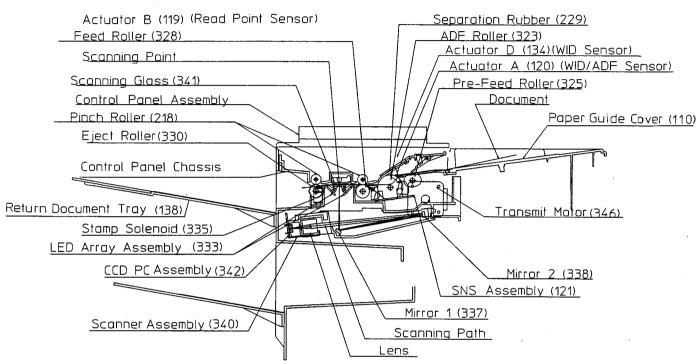
Recei

Cover

Contro

6.1.1

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ADF Mechanism

The ADF (Automatic Document Feeder) automatically feeds paper into the unit, and consists of the Pre-Feed Roller, ADF Roller and Separation Rubber. Each document is placed face-down on the Paper Guide Cover before being fed into the unit.

- The Pre-Feed Roller (325) moves the bottom document to the ADF Roller.
- The ADF Roller (323) feeds individual pages into the scanning area.
- The Separation Rubber (229) separates documents placed on the Paper Guide Cover, preventing multiple feeding.

LED Array Assembly

The UF-895 has two LED Arrays (UF-885 has one LED Array), used as a light source to illuminate the document. The LED Array(s) turns ON when the Read Point Sensor is activated by the document leading edge.

Transmit Guide Unit

The Transmit Guide Unit is an auxiliary part used for feeding and ejecting documents. It consists of the Control Panel Chassis (216), Transmitter Chassis (301), Feed Roller (328), Eject Roller (330), and Pinch Roller (218). This unit also provides the white scanning area and serves as a base for electronic white reference.

Transmit Mechanism Drive System

This system feeds documents through the transmitting mechanism, and consists of rollers, gears and a stepper motor.

- The **Transmit Motor** (346), a stepper motor, controlled by the CPU, drives the Pre-Feed Roller, ADF Roller, Feed Roller and Eject Roller, with the speed based on the density of the picture information.
- The Feed Roller (328) feeds the document to the scanning point.
- The Eject Roller (330) feeds and ejects the document out of the machine.

Transmit Mechanism Sensors [SNS PCB (121)]

The SNS Assembly (121) performs two functions. The ADF Sensor (PC3), activated by Actuator A (120), detects the presence of documents on the ADF Tray and multiple pages. The WID (A4/B4 size document width) Sensor (PC1), activated by Actuator D (134), detects documents that are wider than 9.1 inches (232 mm). The size of the reproduced copy is reduced when the receiver is capable of printing only letter and A4 size. The size remains the same when the receiver is capable of printing B4 size copies. Width reduction is also in effect in the copy mode.

The **RP** (Read Point) Sensor (PC2), activated by Actuator B (119), detects the lead and trail edges of the document, controlling the reading position. The CPU determines that a document is jammed if Actuator B is not tripped within a specified time after the ADF Roller starts feeding, and disengages the Pre-Feed and ADF Rollers by reversing the Transmit Motor direction.

The ADF Door Sensor (PC1), activated by Actuator C (118), halts all scanning operations when the Control Panel Unit is open.

Verification Stamp Unit

The Verification Stamp Unit stamps an "X" mark on the front of the document after the document is successfully transmitted or stored. It consists of the Stamp Holder (334) and Stamp Solenoid (335).

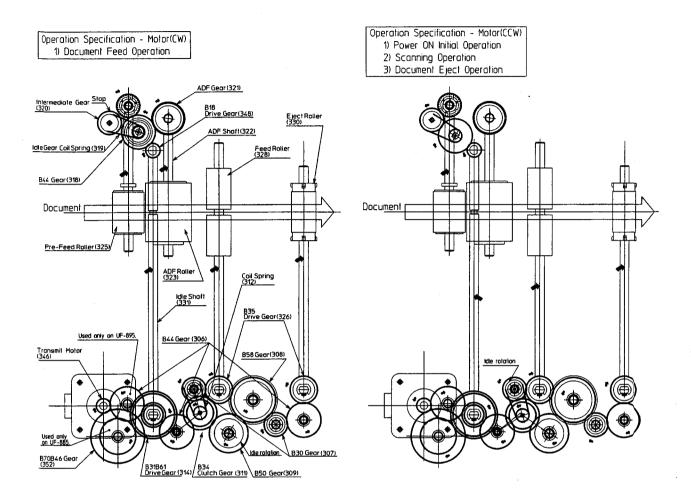
Scanner Assembly (340)

The Scanner Assembly consists of two mirrors, a Lens, and a CCD PC Board Assembly (342).

- The mirrors, Mirror 1 (337) and Mirror 2 (338) reflect image information, in the form of light, through the Lens.
- The Lens focuses the image information and passes it to the CCD.
- The CCD, mounted on the CCD PC Board, converts the image information into an electronic signal.

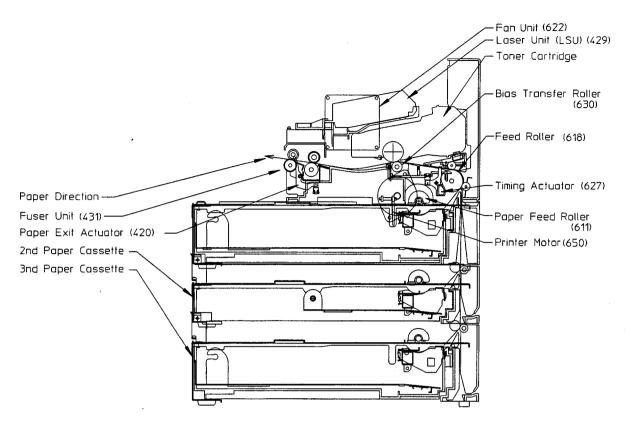
Drive System

The Drive System uses a Planetary Gear System to provide drive to the Pre-Feed Roller and ADF Roller. A planetary gear system does not have a fixed position; it shifts its position according to the rotational torque of the gear, together with the rotation of the planet gear. When the Read Point Sensor is activated, and the document is scanned, the Pre-Feed Roller and the ADF Roller drive are disengaged. The Drive System is shown below.



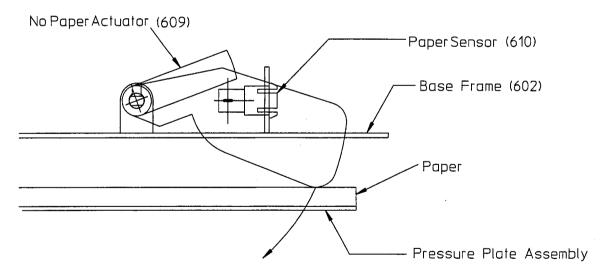
6.1.2 Receive Mechanism

The Receive Mechanism consists of the Laser Unit (LSU), OPC (Organic Photo Conductor) Drum, and various other parts which ensure the normal feeding of recording paper. These components and their functions are as follows:



Paper Feed Units No.1 and 2
Paper Feeder Unit No.2 is optional.

Cassette Paper Detection operation



The NP Actuators attached to the Paper Feed Blocks No.1 and 2 determine if there is paper in the cassette. The paper in the cassette lifts up the NP Actuator, allowing the light from the LED to actuate the phototransistor. The output signal level (nPCHK1 or nPCHK2) is shown in the table below.

| | Paper in cassette | No paper |
|-----------------------|-------------------|----------|
| Paper Feed Block No.1 | L | Н |
| Paper Feed Block No.2 | L | Ŧ |

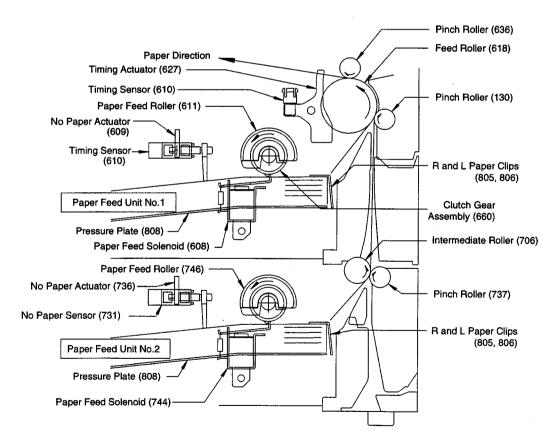
Paper Feed Unit No. 1 Operation

- 1. The printing operation begins when the nPRT (Print Request) output signal level goes Low. The Printer Motor (650) is initialized.
- 2. The Paper Feed Solenoid (608) is energized for a specified period of time and turned ON. This activates the Paper Feed Roller (746), which rotates one revolution. The paper is separated into individual sheets by the Paper Separation Arm and transported to the Feed Roller (618).
- 3. After one revolution the Paper Feed Roller stops, releasing the paper. The Feed Roller transports the paper to the drum area.
- 4. The actual printing process starts at a specified time after the Timing Actuator (627) is activated and stops at a specified period of time after the trailing edge clears the Timing Actuator.

Paper Feed Unit No. 2 (Optional) Operation

The First Paper Feed Unit always takes priority. The Second Paper Feed Unit becomes operational only when the first cassette runs out of paper and the NP Sensor is deactivated, causing the nPCHK1 output signal level to go High. (See Note)

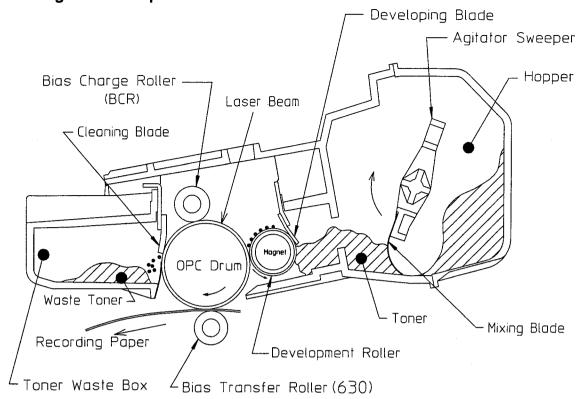
- 1. The printing operation begins when the nPRT (Print Request) output signal level goes Low. The Printer Motor (650) is initialized.
- 2. The Paper Feed Solenoid (744) is energized for a specified period of time and turned ON. This activates the Paper Feed Roller (746), which rotates one revolution. The paper is separated into individual sheets by the Paper Separation Arm and transported to the Intermediate Roller (706).
- 3. After one revolution the Paper Feed Roller stops, releasing the paper. The Intermediate Roller and the Feed Roller (618) transports the paper to the drum area.
- 4. The actual printing process starts at a specified time after the Timing Actuator (627) is activated and stops at a a specified period of time after the trailing edge clears the Timing Actuator.



Note

The printing priority is always from the 500 sheet Feeder Unit (upper cassette).

6.1.3 Printing Process Operation



Charge

In the dark, the Bias Charge Roller (BCR) applies a high, uniform negative charge to the surface of the OPC Drum. The surface potential is approximately -650 VDC and remains because the drum has a high electric resistance in the dark.

Exposure

A portion of the laser beam is deflected to the timing sensor [Beam Detection (BD) Sensor], which controls the start timing of scanning on the OPC Drum. The CPU also uses the timing sensor to detect abnormal signals. The light beam from the laser diode is modulated by the digital signal (nVIDEO) and converted to parallel light waves by the collimator lens. The beam is then directed to the rotating polygon mirror, where it is reflected to the f-θ lens and then focused onto the OPC Drum surface. The laser beam moves across the surface of the OPC Drum in the scanning direction. Where the laser beam is applied, the negative charge on the drum dissipates, and where the laser is not applied, the negative charge remains. This action forms a latent, electrostatic image on the OPC Drum, corresponding to the original image.

Development

This development process uses a conventional method, where toner coats a Development Roller and transfers to the latent image on the OPC Drum. In the Toner Cartridge, the (mono-component) toner is negatively charged by the friction between the rotating Development Roller (Mag Roller) and the Developing Blade. This combination and the rotation of the Mixing Blade transfers the toner from the reservoir and forms a brush effect on the Mag roller. Where the magnetic brush lightly touches the OPC Drum, the negatively charged toner is attracted to the latent image on the drum, forming a mirror image of the original on the drum. Any remaining toner is removed from the Mag Roller by the Developing Blade and is recycled back into the toner reservoir. A bias voltage of approximately 1.7 kVACp-p at 1.7 kHz, riding on a -500 VDC bias is applied to the magnetic brush to achieve maximum print quality.

Transfer and Separation

As the paper is fed between the OPC Drum and the Bias Transfer Roller (BTR) (630), a positive charge of approximately +600 VDC (+3 µA steady current) is applied to the backside of the paper by the BTR. The toner particles are attracted away from the drum towards the surface of the paper. During cleaning, the BTR is charged to approximately -800 VDC to repel toner on the OPC Drum and prevent toner from being attracted to the BTR. After transfer has occurred, the paper passes over the Discharge Plate (617) in the Plate Discharge Guide (616), reducing the difference of potential between the OPC Drum and the paper. The stiffness of the paper causes the paper to separate from the drum.

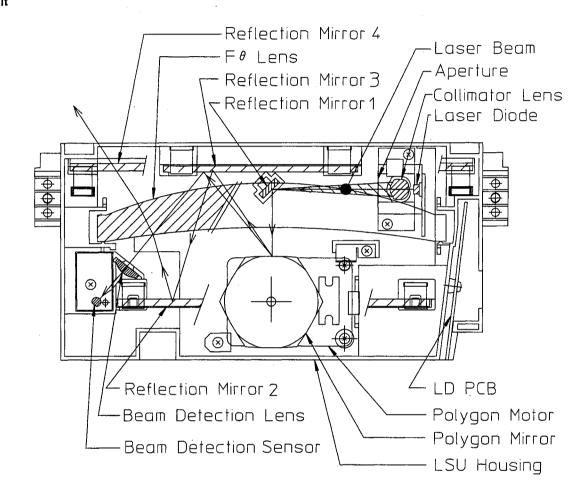
Cleaning

After transfer, some toner may remain on the surface of the OPC Drum. A Cleaning Blade scrapes the OPC Drum surface, and the removed toner is moved into the Toner Waste Box, inside the Toner Cartridge.

Fusing

After separation, the paper passes through the Fuser Rollers and is subjected to heat and pressure in the Fuser Unit (431). Pressure between the Fuser Roller (414) [heated internally by the Fuser Lamp (408) to approximately 190°C (±10°C) (or 374°F)] and Pressure Roller (409) fuses or bonds the toner into the paper.

Laser Unit



Laser

A 5 mW Laser Diode, with a wave length of 780 nm (±20 nm), provides a modulated beam controlled by nVIDEO.The beam power on the drum surface is approximately 0.23 mW, and is controlled by the monitor circuit.

Collimator Lens

This lens converges and focuses the laser beam, converting it to parallel light.

Aperture

This controls the size of the laser beam.

Polygon Mirror and Motor

The polygon scanner consists of a 6-sided mirror, directly driven by a Polygon motor, revolving at 10,000 rpm. The laser beam is reflected against these mirrors and swept over the recorded width in the scanning direction. This unit features a stable line scanning speed, a precision mirror reflection angle, a reflection free surface, and instant start.

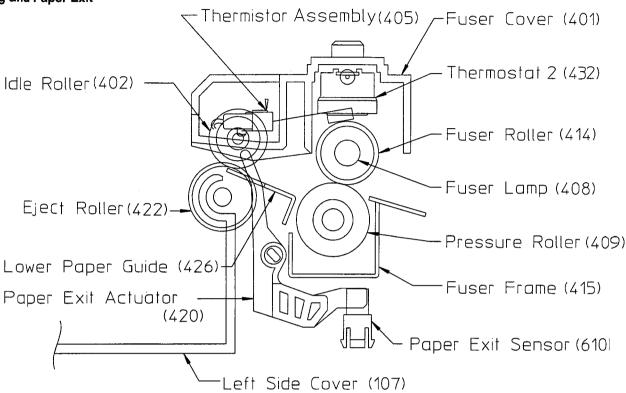
Beam Detection (BD) Lens and Beam Detection (BD) Sensor

The BD Lens receives the reflected light from the Polygon Mirror and redirects it into the BD Sensor, which converts the laser beam into electrical signals and sets the start timing for the scanning line.

f-θ lens

This amorphous plastic, molded lens is designed to provide parallel laser light across the surface of the drum, providing a constant scanning speed.

Fusing and Paper Exit



Fuser Unit (431)

The Fuser Unit, consisting of the Fuser Lamp, Fuser Roller, Pressure Roller, Thermistor, and Thermostat, bonds the toner into the paper using heat and pressure.

Fuser Lamp (408)

Located in the Fuser Roller is a Halogen lamp that serves as the heat source for the Fuser Roller.

Fuser Roller (414)

A Teflon coated roller supplies the heat for bonding the toner to the paper. The temperature of the surface is kept constant at approximately 190°C (±10°C) (or 374°F).

Pressure Roller (409)

This converted PFA tube Silicon Rubber Roller applies pressure to the Fuser Roller, assisting in bonding the toner to the paper.

Thermistor Assembly (405)

The Thermistor, a heat sensitive resistor, in contact with the Fuser Roller, monitors the surface temperature. The temperature detected is used to control the ON/OFF switching of the Fuser Lamp. It also acts as the primary overheat prevention evice. A comparator circuit on the FCB PC Board acts as a secondary overheat protection and becomes active at approximately 200°C (392°F).

Thermostat 2 (432)

A Thermostatic Fuse, part of the power line for the Fuser Lamp, provides an extra overheat protection by opening when the Fuser Roller surface temperature reaches 230°C (446°F) and remains there for 1 minute. If the primary and secondary overheat protection does not halt the rise in temperature, the thermostat opens, removing power from the Fuser Lamp. When the Thermostat opens, it must be replaced.

Paper Exit Sensor (610)

This sensor detects the presence of printed paper at the exit. If no paper passes, or if paper is over the sensor too long, a "RECORDING PAPER JAM" message is displayed. When paper passes over the sensor, the output is Low (Low Active).

Thermal Fuse (433)

It is placed in series with the Thermostat on the power line of the Fuser Lamp and performs the tertiary overheating prevention (in case the Thermostat fails) by opening when the surrounding temperature reaches approximately 216°C (420.8°F).

Drive Assembly and Toner Cartridge

The **Drive Assembly**, consisting of the Printer Motor (650) and the drive mechanisms, is activated by coupling and gear arrangements. The **Toner Sensor** (639), a magnetic sensor, detects the remaining quantity of toner in the Toner Cartridge. When the "TONER" lamp starts to blink, there is still enough toner left in the cartridge to print 100 pages (based on ITU-T Image No.1). When toner has run out the display will show: "OUT OF TONER & INFO CODE 041" and the machine is disabled from printing any copies. The **Toner Cartridge** consists of OPC Drum, Bias Charge Roller, Development Roller, Developing Blade, Cleaning Blade, Mixing Blades and Toner Waste Box. The **OPC Drum** is an aluminum cylinder coated with an OPC (Organic Photo Conductor) sensitive material. This surface is photoelectric (retains the charge in the dark and releases the charge in the light). The potential differences on the surface (a static latent image) form a printed image. The **Bias Charge Roller** provides a uniform charge on the OPC Drum surface. The **Development Roller** supplies toner to the drum by rotating over the magnet. The **Developing Blade** evens the toner on the Development Roller surface and also charges the toner by friction. The **Cleaning Blade** cleans by scraping the remaining toner off the OPC Drum surface after transfer.

6.1.4 Covers and Enclosures

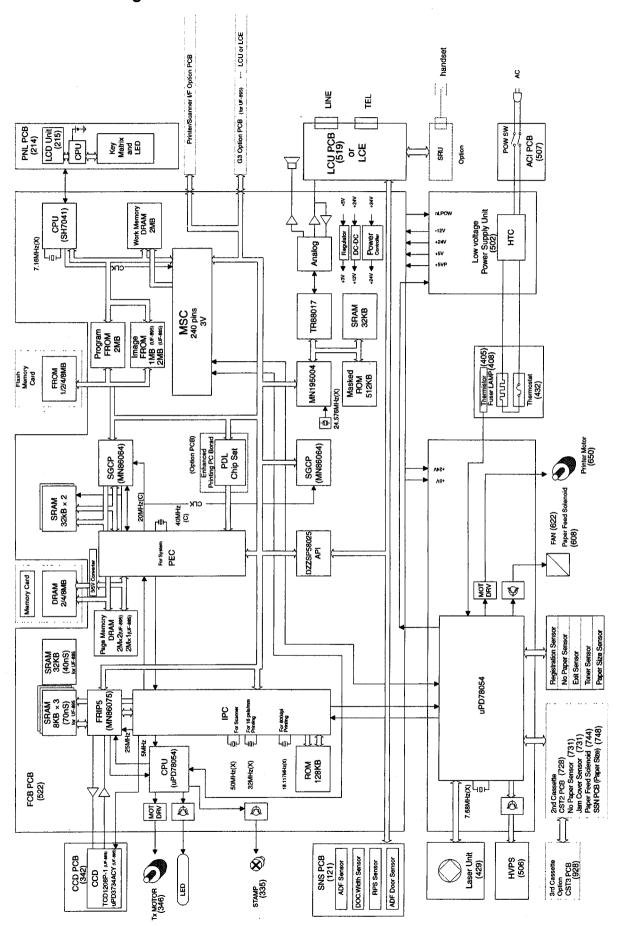
The Paper Guide Cover (110) contains Paper Guides (111), (112), which adjust to the paper width to properly feed the original documents. The **Front Cover** (105) has a Speaker (133) mounted inside. The **Rear Cover** (108) shields the circuit boards. The Printer Cover (122) contains the Document Sub Tray (124), used to support legal size documents. The Left Side Cover (107) shields the Fuser Unit.

6.1.5 Control Panel

The Control Panel consists of the Panel PC Boards (214) and LCD Unit (215), which displays the various status messages, and a membrane-type panel.

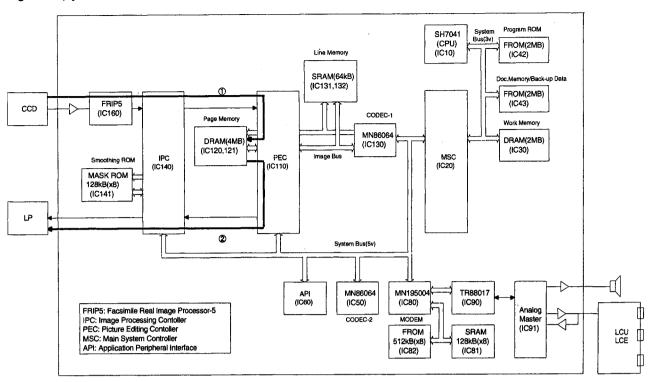
6.2 Electrical Circuit Explanation

6.2.1 Fax Block Diagram

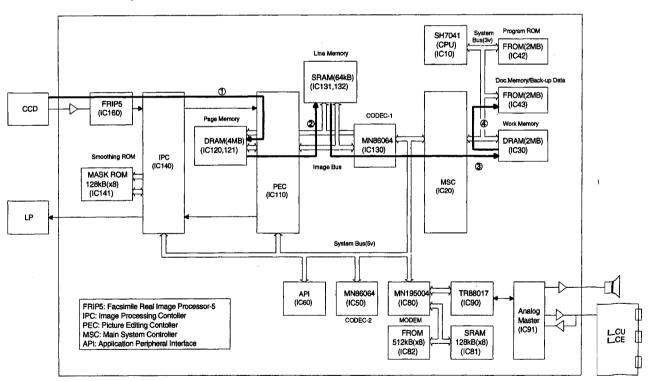


6.2.2 Signal Routing

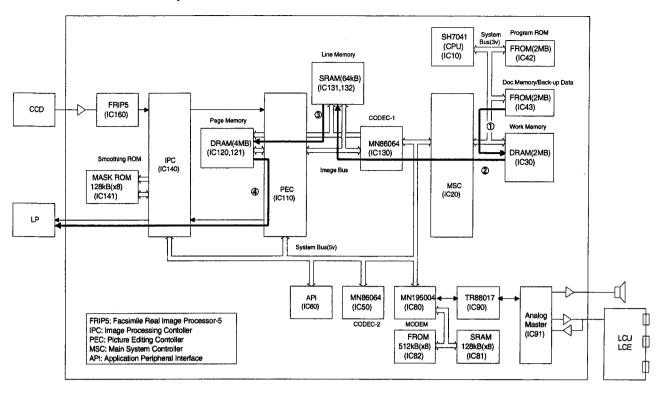
Single Copy



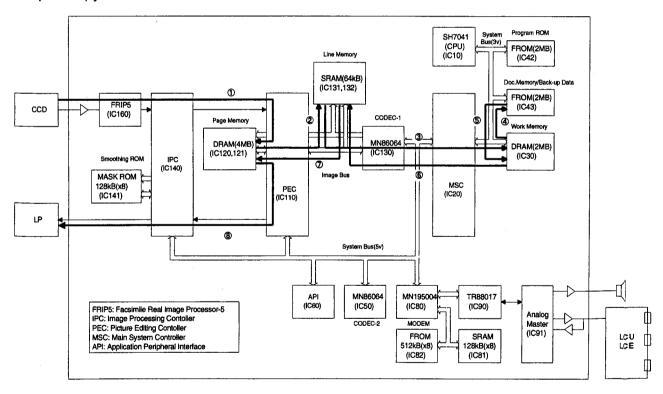
Scan into Memory



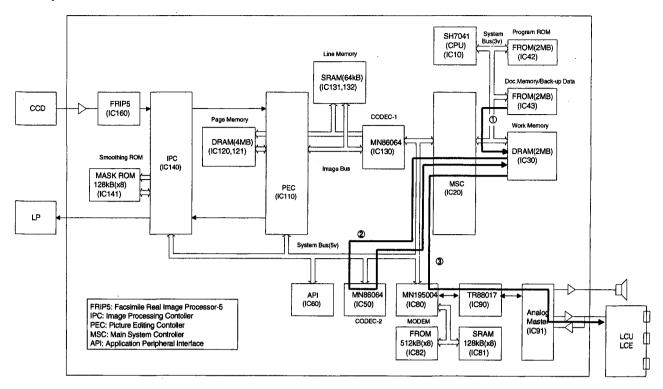
File Print From Memory



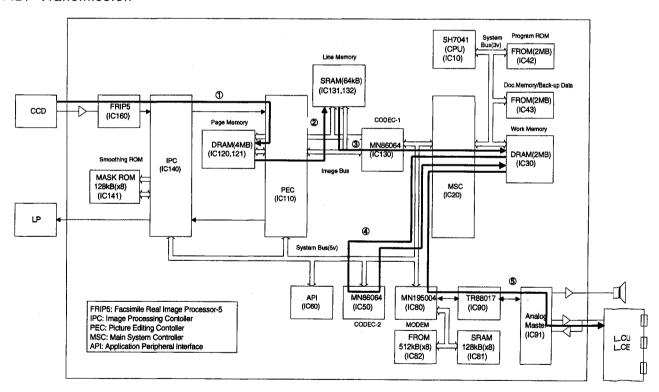
Multiple Copy



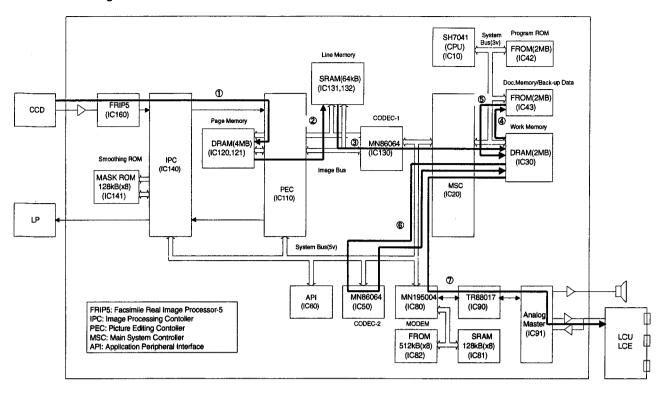
Memory Transmission



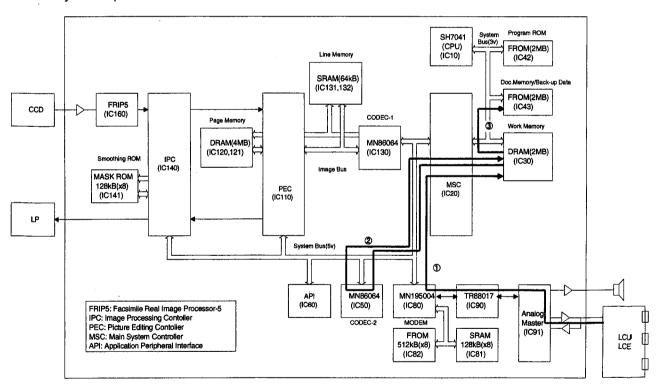
ADF Transmission



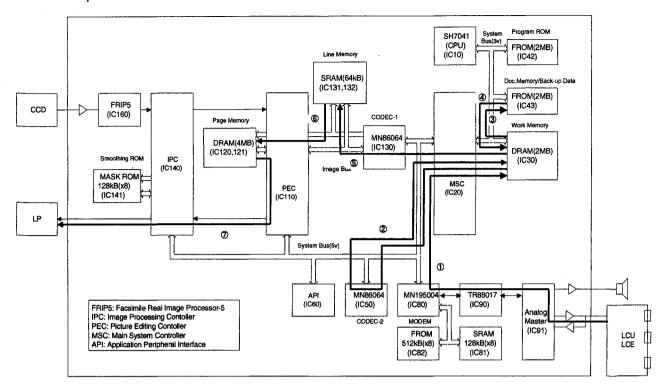
Quick-Scanning Transmission



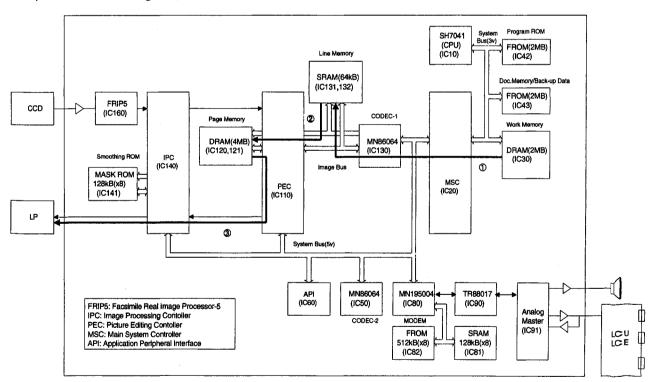
Memory Reception



Direct Reception

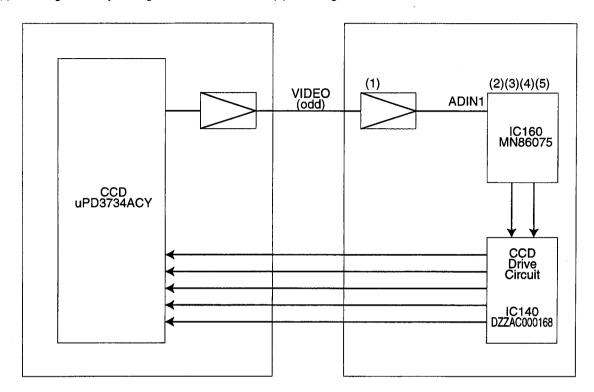


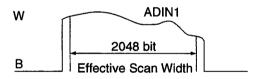
Report/List Printing



6.2.3 Picture Signal Scanning Block

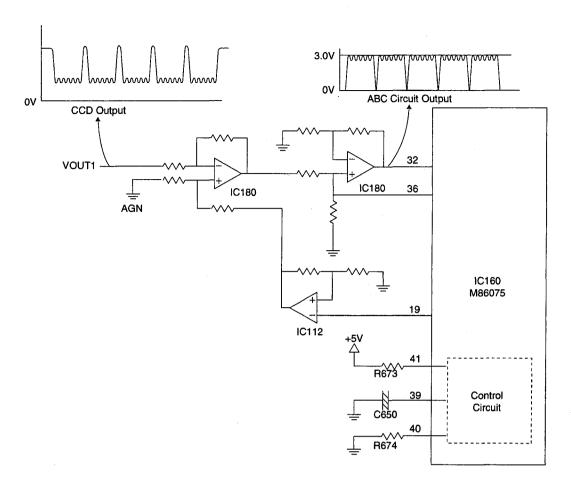
The image data read by the optical unit is input to the CCD mounted on the CCD PC Board, then transferred to the FCB PC Board after the optical information is converted into an electrical signal by the CCD. The following shows a block diagram of the picture signal scanning circuit. This picture signal scanning circuit consists of (1) ABC circuit, (2) shading correction circuit, (3) offset control circuit, (4) picture signal binary coding correction circuit and (5) reducing circuit.





ABC Circuit

This circuit consists of IC180, IC160, C650, R673 and R674. Its function is to prevent deterioration of picture quality due to dirt on the document or degrading of the luminous energy of the LED light source. The picture signal from the CCD is amplified in IC180 and input to IC160, where it is converted from analog to digital and the shading is corrected. When the signal exceeds +3.0V as the result of this amplification and correction, capacitor C650 is charged through R673. This charging voltage lowers the level of the picture signal input to IC180. When the picture signal voltage rises, this charge voltage becomes higher. When the picture signal level lowers due to the background color, etc., of a transmitting document, the voltage of the charged capacitor C650 is discharged through R674. Consequently, the output of the ABC circuit is kept constant to maintain the picture quality, regardless of changes in the CCD output level.



Shading Correction Circuit

The Shading Correction Circuit, included in IC160, is provided to correct for reduction in LED lamp intensity around the optical lens and LED lamp intensity distortion due to shading of each bit. This circuit scans the reference white on the transmitting document plate immediately before the document reaches the scanning position and writes a compensation value according to the distortion of the waveform, at the time, into the S-RAM (IC170, IC171, IC172). When the actual picture signal is input, the circuit corrects the picture signal shading, according to this compensation value. This shading is carried out for each page during transmission or copy.

Offset Control Circuit

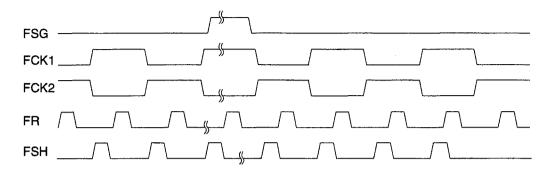
The Offset Control Circuit consists of IC161, IC160 and IC118, and controls the black level of the CCD output to be at 0V by using the IC118.

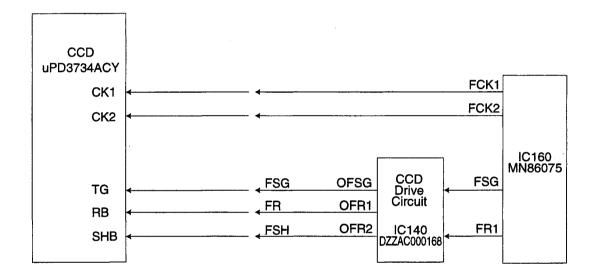
Picture Signal Binary Coding Correction Circuit

The Picture Signal Binary Coding Correction Circuit is included in IC160. It is used to obtain a binary coding signal which is a corrected picture and error diffused signal of a false halftone signal, which is detected from a shaded picture signal.

6.2.4 CCD Drive Clock Generator Circuit

This circuit is also contained in IC9. Its function is to generate FSG, FCK1 and FR clock signals, which are required for driving the CCD. These clock signals are generated by the system clock generator circuit derived from the 25.0 MHz clock signal that is input to IC160. Its timing chart is shown below. The FSG, FCK1, FCK2, FR and FSH clock supplied to the CCD is output from the OFSG, OFCK1, OFCK2, FR and FSH of IC40 (DZZAC000108). These clocks of IC40 are derived from the FSG, FCK1, and FR clock of IC160 (MN86075) generates the timing of the FSG, FCK1, FCK2, FR and FSH clock to drive the CCD.





6.2.5 Picture Quality Control Circuit

This circuit consists of a recording picture control standard cell IC140 (DZZAC000168 or "1PC"), an interpolation table ROM (IC141) and its peripheral circuitry. The recording picture control standard cell (IC140) inputs the serial data from the IC110 (DZZAC000167 or "PEC"), conducts picture quality correction (smoothing), reduction, synchronization control, etc., then sends this data to the printer. These functions are as follows:

Picture quality correction circuit (smoothing)

Compares the picture element with 15 surrounding picture elements, determines the interpolation data from the interpolation data ROM, and smooths out diagonal lines, etc., on the recorded picture.

Image range isolation circuit

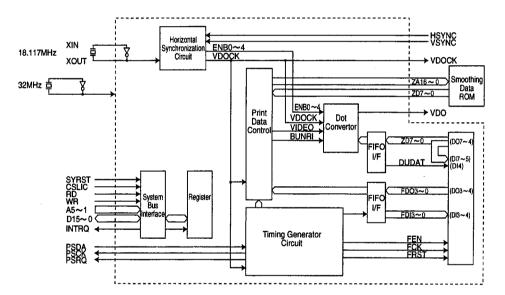
Identifies the halftone picture range and controls smoothing to eliminate blotching of the recording picture which has undergone error diffusion or other processing.

Reduction circuit

This circuit is used to process the received data so that it fits on the recording paper, according to the Fax Parameter settings.

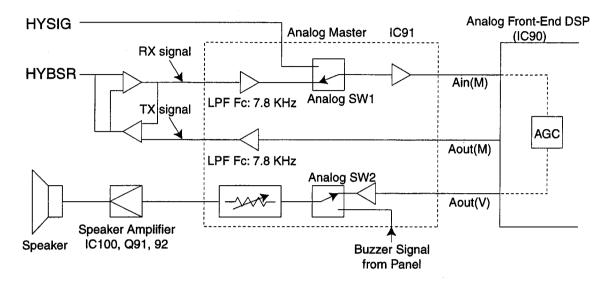
Synchronization control circuit

This circuit is used to synchronize the output recorded data with the horizontal synchronizing output signal from the printer for each line. Within a line, it is synchronized with the dot clock signal. The dot clock signal is provided by dividing the crystal oscillator frequency from the Extend Generator Circuit (32 MHz : 16 x 15.4, 18.117MHz : 600dpi) by 5.



6.2.6 Line Monitor Circuit

The Line Monitor Circuit consists of an operational amplifier (IC100), analog master (IC91) and its peripheral circuits. Its function is to monitor the dial tone, DTMF tone, response signals, etc. over the speaker. It also sounds the output of the key touch tones, alarm tones, etc. from the panel CPU over the speaker. The received signal from the Ain (M) passes through an AGC circuit and is conditioned by the Analog Front-End DSP (IC90) and is then input to the Analog SW2 for volume control. The signal is then input to the Speaker Amplifier (IC100, Q91, 92), where it is amplified to a level sufficient to drive the speaker. The key touch tones and Buzzer Signals from the panel are input to the Analog SW2 for volume control and then input to the Speaker Amplifier. The monitor tone from the phone line and the buzzer tone from the panel can be adjusted from the Control Panel.

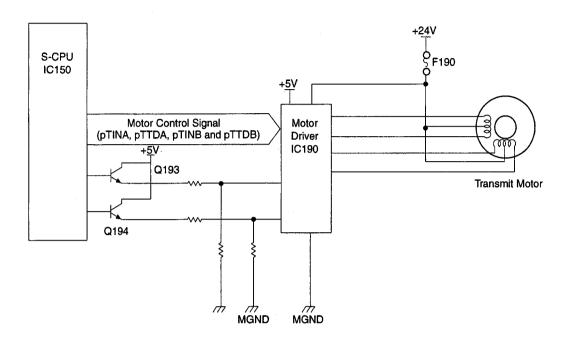


6.2.7 Transmit Motor Control Circuit

The transmit motor is a stepper motor powered by +24 VDC and driven by a 1/2-phase excitation, greater step division is provided by controlling the phase circuit in steps.

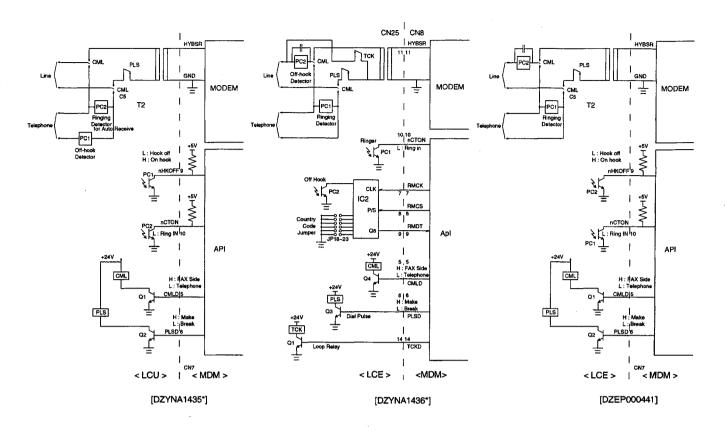
The stepping signal and chopping current control signals (pTINA, pTTDA, pTINB and pTTDB) are sent to the chopper drive circuit, comprised of IC190 and its peripheral circuitry, from the IC150 (S-CPU) output port.

Tx Motor Driver Circuit Block Diagram



6.2.8 Line Control Board

The following shows a block diagram of the Line Control Board.

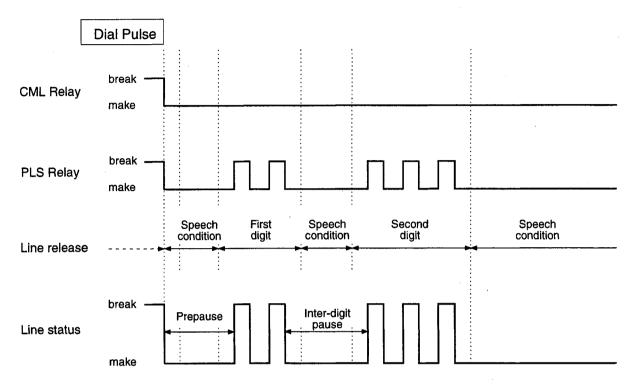


The **Ring Detector** consists of a photocoupler, PC2 (PC1 for LCE), and its peripheral circuits. The ringing signal is half-wave rectifier in the Ring Detector, and transferred through the nCTON signal line to the IC80 on the FCB PC Board. The IC80 observes the signal to distinguish from signals caused by chattering.

The **Off-Hook Detector (External Telephone)** circuit consists of the photocoupler, PC1 (PC2 for LCE), and its peripheral circuits. When PC1 detects loop current flow, it emits a Low active output signal (nHKOF) to the IC80 which monitors it for a specified time. If the IC80 detects no change in the Low signal level, it determines that the External Telephone is Off-Hook.

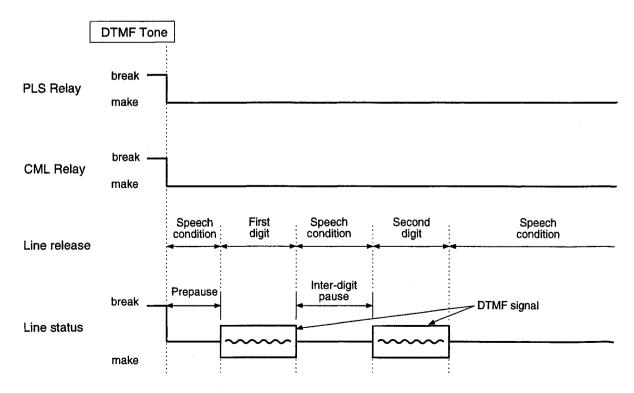
Dial Pulse Generator

The circuit consists of the CML relay, PLS relay and their peripheral circuits. This circuit generates dial pulses. The CPU on the FCB PC Board controls all dial pulse generation sequences. It turns relay CML and PLS ON and OFF through the DZZSP58025 (IC80). The status of the relays during dialing is shown below. When the absence of the terminating message is confirmed by the Off-Hook detector, the CPU turns CML relay ON to develop loop status (DC loop). After a few seconds, the CPU turns the PLS relay On and Off to generate dial pulses, making and breaking the loop.



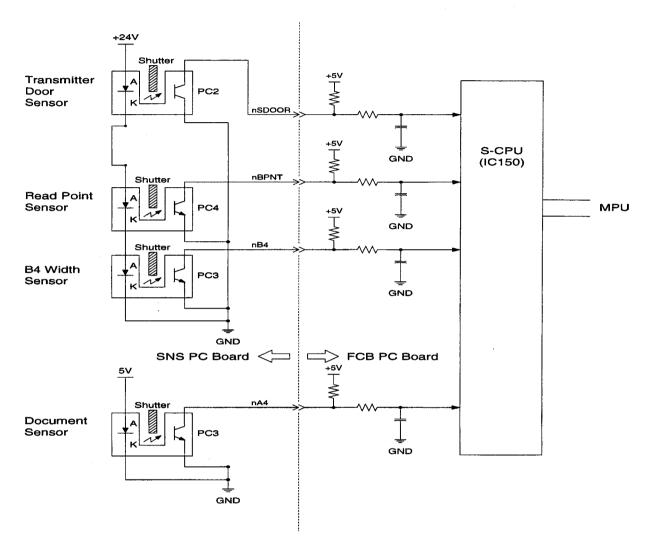
DTMF Tone Generator

The circuit is incorporated in the MODEM on the FCB PC Board. The DTMF tone is conveyed to the telephone line using the same route as the facsimile signal. The DTMF tone selection is controlled by the CPU. The relay status during dialing is shown below.



6.2.9 SNS PC Board

Each sensor consists of an LED and phototransistor. When documents are placed on the ADF tray or are moving, a shutter in the document sensor closes. The light path from the LED is blocked turning the phototransistor "OFF", and the output voltage from the sensor becomes a "High" level. With no document on the ADF tray, the shutter opens the light path, and output from the sensor is kept at a "Low" level. Operation of the RP Sensor is opposite to the ADF Sensor. When the leading edge of the document reaches the RP Sensor, the shutter opens and the output voltage becomes a "Low" level. Then, the shutter closes and the output becomes a "High" level when the lagging edge of the document clears the RP Sensor. The Tx Door Sensor operation is the same as the ADF Sensor, the output from the sensor is kept at a "Low" level when the door is closed and becomes a "High" level when the Tx Door is opened.



6.2.10 Control Panel

The Control Panel consists of the Display PCB and Panel Unit, which display various status information. It is normally interfaced to the main CPU. Keyed input signals are received by the Panel CPU and the data is transferred to the main CPU on the FCB PC Board.

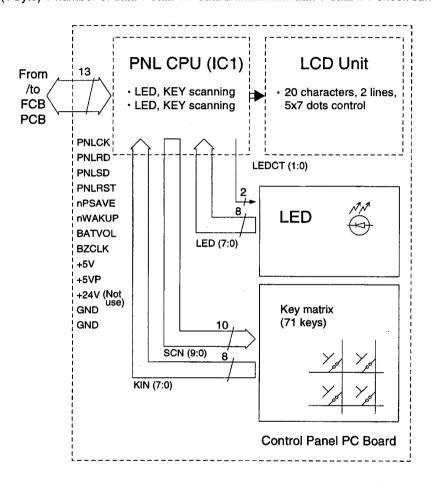
The Control Panel performs the following processes simultaneously:

- Key inputting
- LED, LCD display
- Data transmission / reception

Interface to main CPU

The interfacing between the main CPU and the panel CPU are all executed with commands and responses in the following two formats:

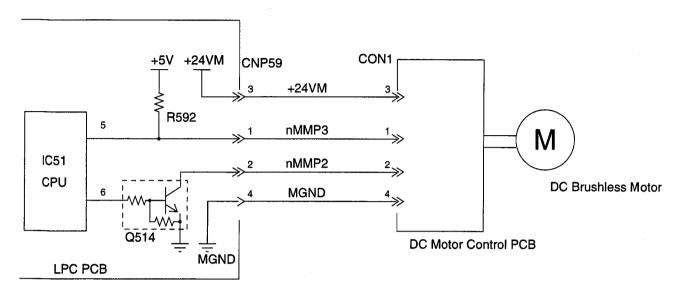
- Command / response (1 byte) + number of data + check sum
- Command / response (1 byte) + number of data + data 1 + data 2 + data n + check sum.



6.2.11 Printer Motor Drive Circuit

Motor Drive Circuit

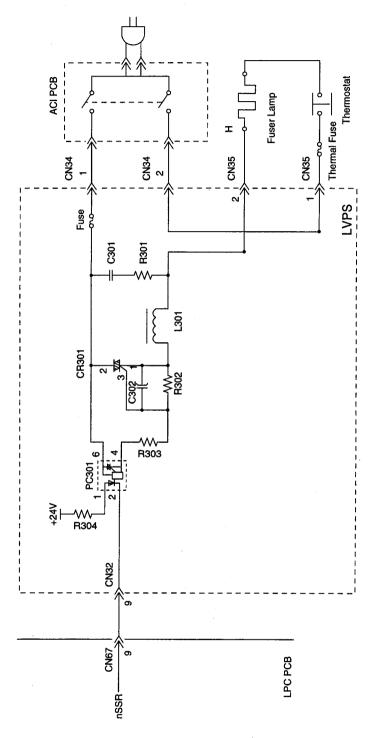
The Printer Motor is a Brushless DC Motor. When the nMMP2 signal level goes Low, the Printer Motor starts rotating. When the Printer Motor reaches a constant speed, the monitor feed back signal, nMMP3 goes Low and is fed back to the CPU which controls the printing process. The Printer Motor is powered by a +24 VDC supply. When the interlocks are open, the +24 VDC supply is cut off and the Printer Motor stops rotating.



Laser Printer Motor Drive Circuit Block Diagram

Fuser Lamp Drive Circuit

The Fuser Lamp is powered by 115 VAC. It is driven by the LVPS and controlled the FCB PC Board. When the CN32, Pin 9 (nSSR) on the LVPS goes LOW, the Fuser Lamp turns ON. This lights up the PC301 LED and activates the CR301 photo-triac, and 115 VAC is sent to the Fuser Lamp. The time at which CR301 is actually activated depends on the 115 VAC sine wave. When the cross-voltage for Pin 6 and Pin 4 of PC301 is other than 0 Volts (sine wave exceeds 0 volts), PC301 inhibits the activation of the triac and turns ON the Fuser Lamp.

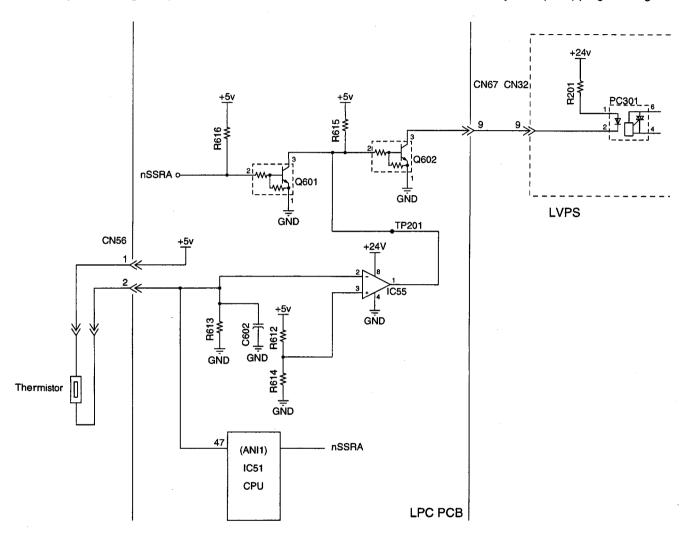


Fuser Lamp Drive Circuit Diagram

Fuser Temperature Control Circuit

The fuser temperature is controlled by IC51 on the LPC PC Board, which contains A/D (Analog/Digital) converters ANI0 and ANI7. The Fuser Temperature Control Circuit uses A/D converter, ANI1. When the PC301 drive current is transmitted from the LPC PC Board to the LVPS, the Fuser Lamp turns ON. IC55 is a converter with open output at pins 1 and 7 and is used as an abnormal temperature detection circuit. IC55, pin 1, has a high impedance when Q602 is activated, turning ON the Fuser Lamp. An abnormal temperature is detected when the VTH voltage level becomes higher than V+, forcing IC55, pin 1 Low and deactivating Q602.

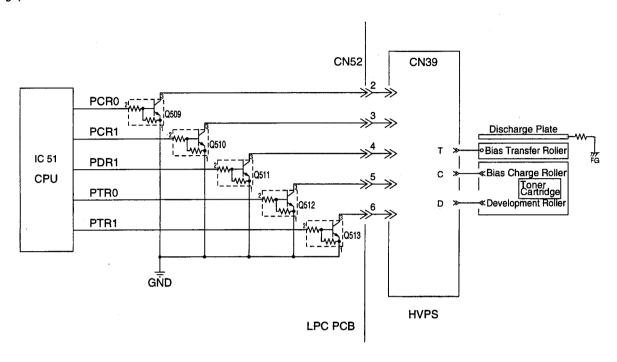
Abnormally low and high temperatures, as well as Thermistor release status, are detected by IC51 (CPU) programming.



Fuser Temperature Control Circuit Diagram

High Voltage Drive Circuit (Charging, Development and Transfer)

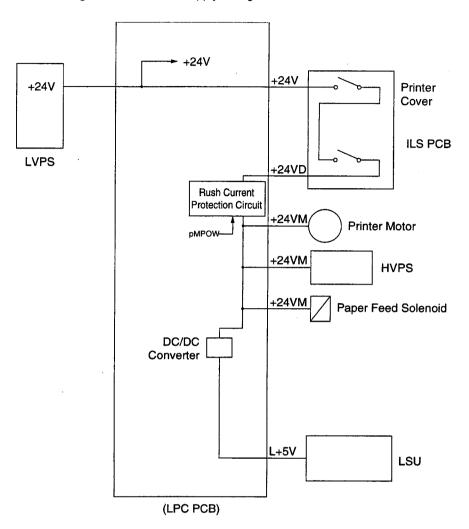
High Voltage is provided through a DC to DC converter, which changes the +24 VDC supply voltage to -650 VDC, and output approximately 0.72 KVAC (Steady current: $450 \,\mu\text{A}$) for the Charging Block. The Developer Circuit converts the +24 VDC to between -500 VDC for the development bias, and outputs 1,700 VAC(p-p) at a frequency of 1.7 kHz to charge the toner. The Transfer Circuit changes the +24 VDC supply voltage to approximately +600 VDC (steady current: $3.0 \,\mu\text{A}$ /-800 VDC steady voltage).



High Voltage Drive Circuit

6.2.12 Interlock Safety Circuit

This safety circuit turns OFF the +24 VDC supply voltages when the Printer Cover is opened. When the Printer Cover is opened, the microswitch(es) on the ILS PC Board are de-actuated, turning OFF +24 VDC to the Printer Drive Circuit, the HVPS, and the Paper Feed Solenoid Circuits, turning OFF the +5 VDC supply voltage for the Laser Driver Circuit on the Laser Unit.



Interlock Safety Circuit Block Diagram

6.2.13 LSU Control Circuit

The laser control signals are described below.

nLDON

The LSU is activated when this output signal is LOW. If an error occurs, the nLDON output signal level goes High and the LSU is deactivated.

nVIDEO

This is the actual Data Signal. The Laser is ON when the nVIDEO output signal level is LOW.

nHSYNC

This horizontal synchronization signal transmitted from the Beam Detection Sensor sets the horizontal position of the laser beam as it crosses the OPC Drum.

nPMON

This is the Polygon Motor Control Signal. The Polygon Motor rotates when the nPMON output signal level is LOW.

nPMRDY

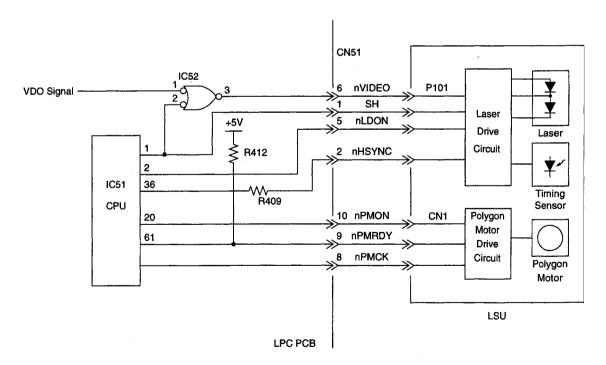
A Phased-Lock Loop (PLL) circuit keeps the Polygon Motor speed constant at 10,000 rpm when the nPMRDY is at a Low output signal level.

nPMCK

This is the Polygon Motor Rotate Clock.

SH

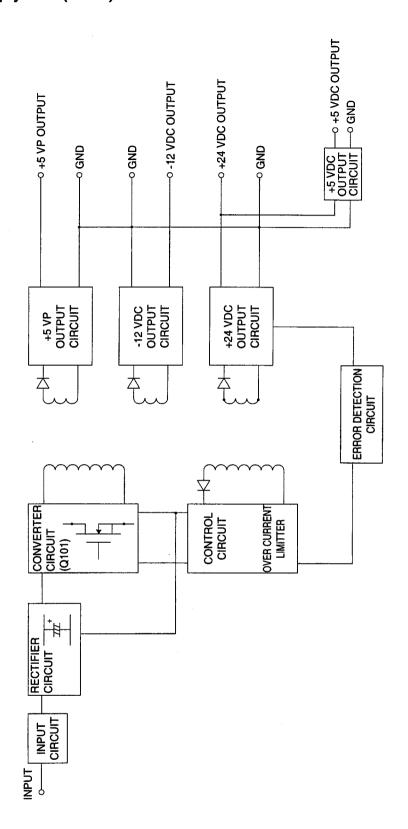
Laser Power Sample/Hold Timing Signal.



Laser Unit Control Circuit Block Diagram

6.2.14 Power Supply Unit (LVPS)

Block Diagram



Note:

+5 VP is the Pilot Power Supply, which provides power to the active components during the Sleep Mode.

ETXDN218A7D (100V), ETXDN218E7D (200V)

Input Filter Circuit

AC line voltage travels to the rectifying circuit through the line filter. The line filter eliminates RFI noise which may otherwise pass to the AC line from the power supply unit. It also protects the power supply unit from transient noise which may pass into the unit from the AC line.

Rectifying and Smoothing Circuit

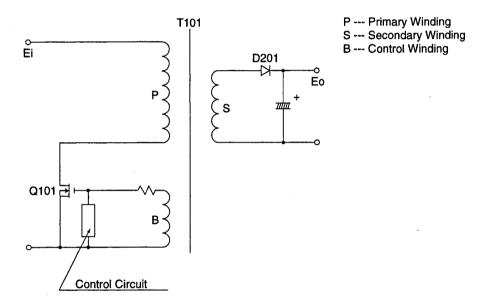
As soon as power is applied to the Power Supply Unit, AC line voltage is rectified by C105 and is smoothed by capacitor C107. The protection circuit at the time of start-up is controlled by an IC (IC101) and resistors R103 and R110.

Inrush Current Protection Circuit

When the capacitor C105 is not charged by the AC input, an inrush current, or current surge, appears at the input side. Power thermistor TH101 limits the inrush current.

Converter Circuit

A hybrid IC (IC101), in combination with transformer T1, form a switching power supply circuit using the RCC (Ringing Choke Converter) system.



Main Switching Circuit

In the above circuit, when the main switching transistor, Q101, is turned On, input voltage, Ei, is supplied to the primary winding of transformer T101. However, no current will flow through diode D201 of the secondary side, due to reverse polarity of the secondary winding causing no current flow within T1. But the transformer charges with energy. When Q101 is turned Off, the supply voltage to the primary winding shuts off and the windings of T101 change polarity, allowing D201 to conduct, releasing the energy accumulated in T101 to the circuit. When the energy is discharged through D201, Q101 turns on, once again reversing the polarity on T101 windings, creating a self-oscillation circuit.

The value of output voltage is

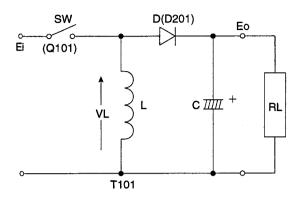
Eo=d/(1-d)*Ei

d=Ton/Ts

Ton: On time of Q101

Ts: Period of oscillation

Equivalent circuit model for the RCC.



In the equivalent circuit; When SW is on, current flows

SW → L

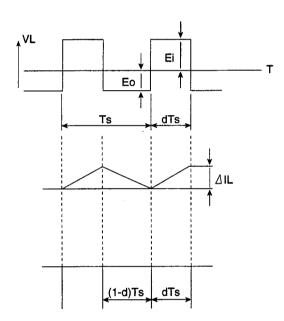
When SW is off, current flows

 $L \rightarrow D \rightarrow RL$

The value of inductance increase current between on period. (d*Ts)

The value of inductance decrease current between off period. ((1-d)*Ts) (2) From equation (1) and (2),

Eo=d/(1-d)*Ei



In the actual circuit, the fixed output voltages are obtained by changing the winding ratio of transformer T101. In this converter circuit, the output voltages are stabilized by controlling the duty cycle of the ON and OFF timing of the transistor. In this power supply, the bias winding is built into the transformer. The power supply has four outputs, +24 VDC, -12 VDC, +5 VP and +5 VDC. The +24 VDC output is protected by the Error Detection Circuit, and the +5 VP and -12 VDC outputs are protected by the circuitry inside of the voltage regulator IC, +5 VDC is protected by ZD251.

Control Circuit and Error Detection Circuit

The control circuit amplifies the output of the duty cycle according to the error voltage detected by the Error Detection Circuit, and drives the main transistor Q101. The method used to change the duty cycle is to change the ON time period. When the output voltage of the +24 VDC circuit rises, the current of photocoupler PC101 increases, the output pulse width of the control circuit decreases and the ON time period of Q101 decreases. This control circuit decides the minimum OFF time period by itself. When the oscillation frequency becomes higher and the OFF time period becomes minimum, the OFF time period remains unchanged and only the ON time period decreases. This way, there is a upper limit of the oscillation frequency and the duty cycle is expanded.

Over Current Limiter

The +24 VDC output is limited by Ton MAX Limiter (ON time period of transistor Q101) which is part of the control circuit. The +5 VP, ~12 VDC and +5 VDC outputs have over current limiters provided inside the voltage regulator and IC251.

7 Exploded View & Parts List

7.1 Country Codes

| Country Code | Country | Country Code | Country |
|-----------------|-------------|-----------------|-----------------------------------|
| AA | Austria | AT | Turkey |
| AB | UK | AU | USA, Puerto Rico |
| AC | Canada | AV | France |
| AD | Denmark | AV | Algeria |
| AE | Taiwan | AW | New Zealand |
| AF | Finland | EE | Italy |
| AĞ | Germany | YA | Panama, Peru, Chile, Argentine |
| AH | Netherlands | YC | Universal 200V Version |
| AJ | Spain | YG | Greece |
| AK | Hong Kong | YJ | Czech, Slovak |
| AL | Australia | YL | Brazil |
| AM | Switzerland | YM | Malaysia |
| AN | Norway | YT | Thailand |
| AP | Portugal | YV | China |
| AP | Brazil | YW | South Africa |
| AQ | Ireland | YX | Singapore |
| AR | Belgium | YY | Mexico, Panama |
| AS | Sweden | | |

Note:

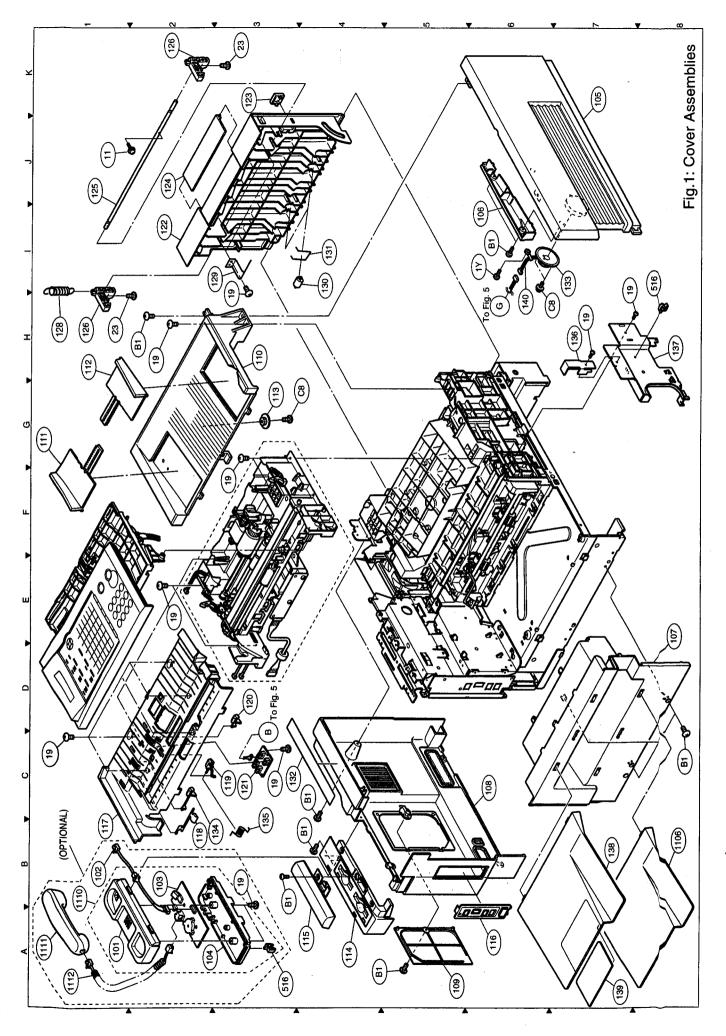
- 1. This parts list is provisional issue for each countries. Please contact local Panasonic company to get correct part number.
- 2. Important safety notice

Components identified by \triangle mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

7.2 Cover Assembly

| Mark Part Number | Cradle, Upper Cord, Cradle Cord, Cradle Cord, Cradle SRIU PCB Assembly SRIU PCB Assembly | AUAC. | ACAAABAD | MEAF | AGAHAJAK | ALAMAN | APAGARAS | ATAVAW | EEYCYGYJ | JYMYTYV | rwyxau | ACAB | AEAGAHAK | ALAMAP | ARATAV | AWEEVC | vergryrx | Location |
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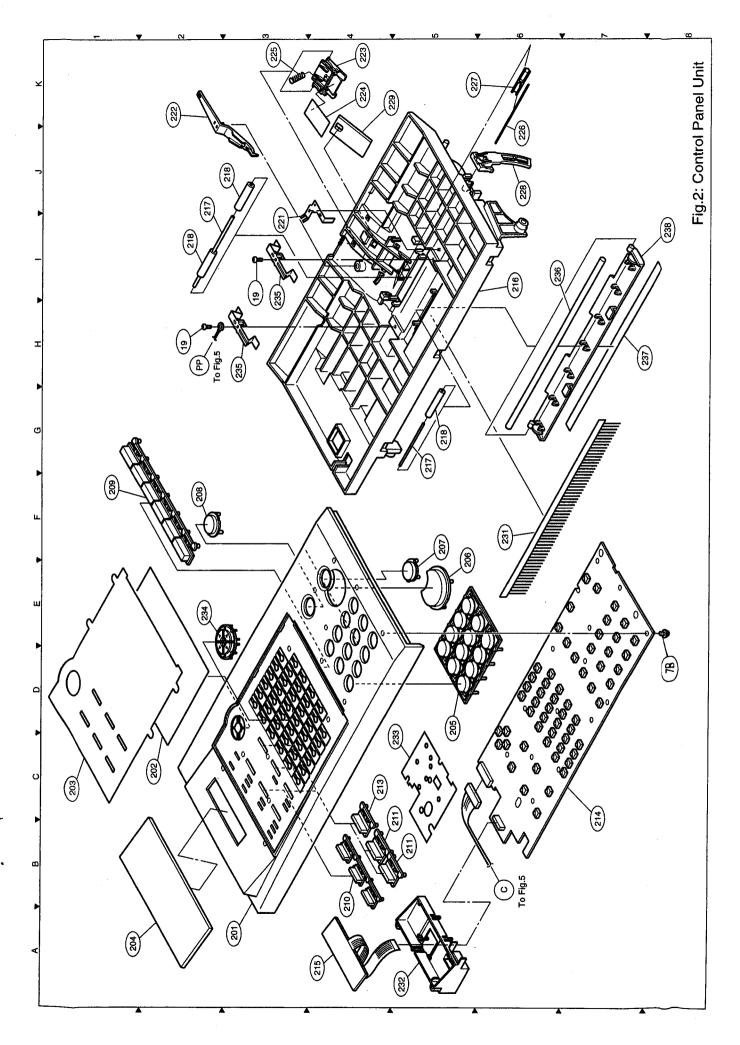
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| XYN3+F12 | | Screw | = | - | = | Ξ | - | Ē | Ξ | E | Ε | - | E | = | E | E | = | - | - | E | - | É | - | - | F | = | E | - | - | F | - | E | | | Τ |
| XTB3+8J | | Screw | - | F | = | E | = | E | - | F | - | - | E | E | F | E | - | - | = | E | - | Ė | - | - | F | - | E | F | - | ŀ | - | - | 7 | 1C 2F 2H 3B 3C 3F 3H 7H | T |
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7.3 Control Panel Unit

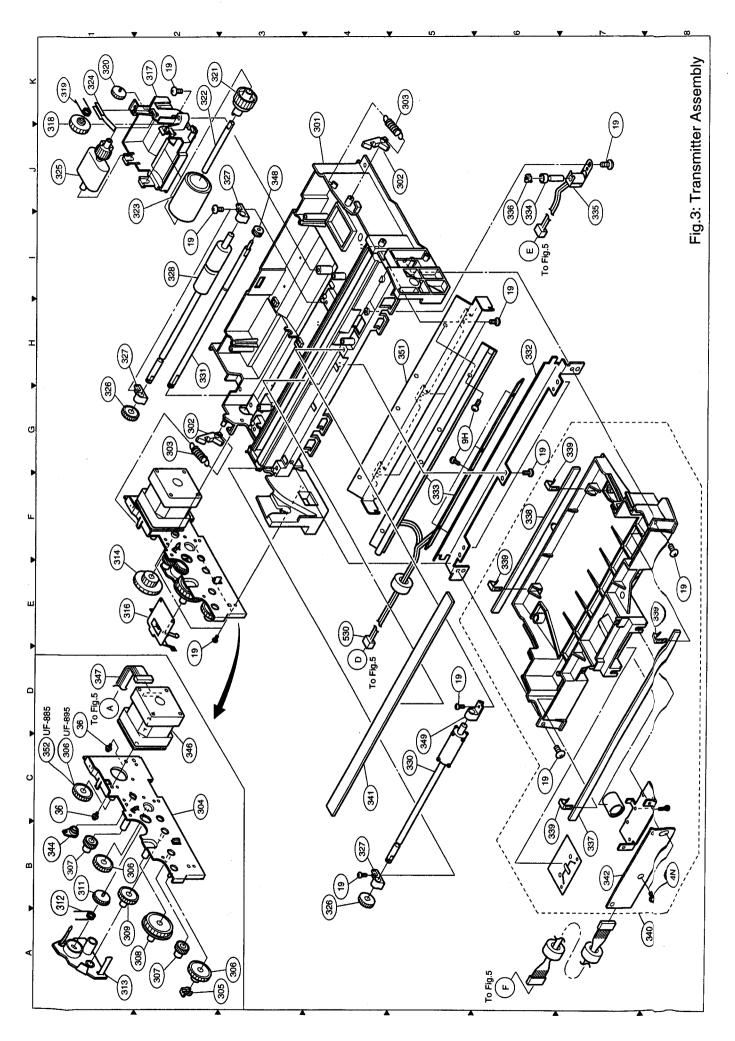
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| | Description | Chassis, Control Panel | Shaft, Pinch Roller | Roller, Pinch | Ground Plate A | Lever, Adjustment | Cover, Pre-Feed | Film, Pre-Feed | Spring, Coll, Pre-Feed Cover | Spring, Pressure Plate | Plate, Pressure | Latch, Stopper | Rubber, Separation | Brush, Antistatic | Holder, LCD | Film, Antistatic | Key, Cursor | Spring, Plate, Pinch Roller | Shaft, Plate, Scanning | Seal, White | Plate, Scanning | Screw |
| Model Name | Part Number | DZJF000368 | DZLG000002 S | П | DZKP000154 G | | | | | | DZJM000013 P | DZKK000023 L | | DZGT000007 | | | | | | | 349 | XTB3+8J |
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7.4 Transmitter Assembly

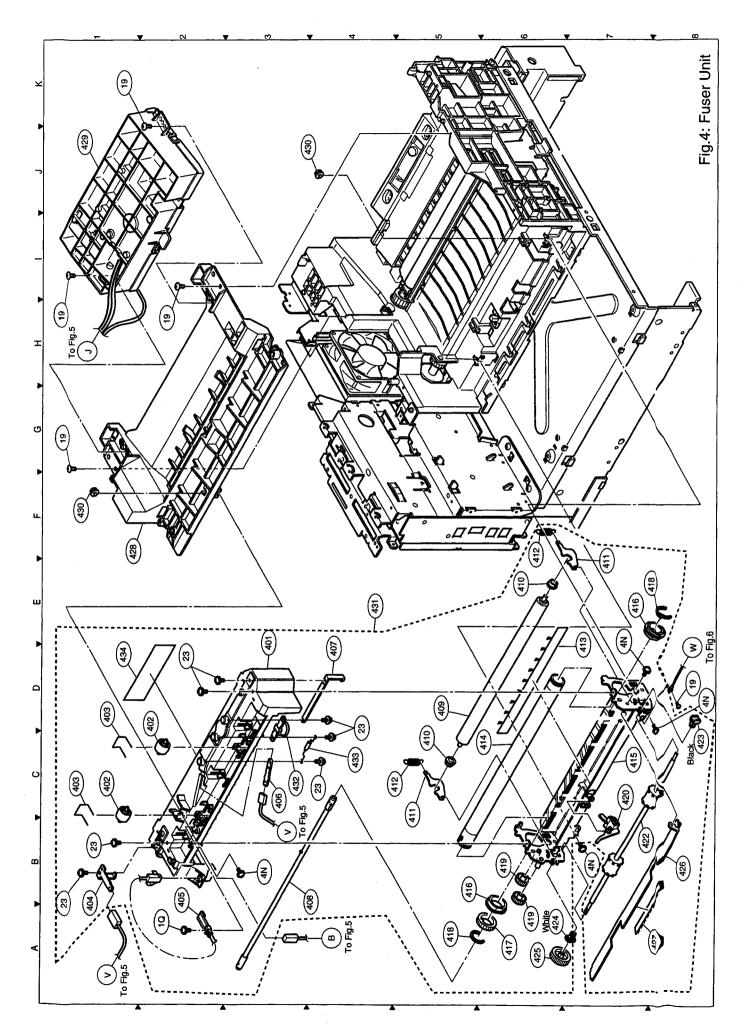
| Ref. Safety Number Description No. Mark Part Numbe Description 302 - DZH0000168 Latch 303 - DZH0000154 Latch 304 - DZH0002389 Bracket B. Motor 304 - DZH0002389 Bracket B. Motor 305 - DZH0002389 Bracket B. Motor 306 - DZLF0000260 Gear. B44 (Alternate Part) 307 - DZLF0000260 Gear. B44 (Alternate Part) 307 - DZLF000059 Gear. B58 307 - DZLF000050 Gear. B58 308 - DZLF000050 Gear. B58 309 - DZLF000156 Gear. B58 311 - DZLF000156 Gear. B50 312 - DZLF000156 Gear. B50 313 - DZLF000156 Gear. B50 314 - DZLF000156 Gear. B50 315 - DZLF000156 Gear. B4AP 316 - DZLF000156 Gear. B50 317 - DZLF0000156 Gear. B50 318 - | The control of the |
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| DZLP002899 DZLP00289 DZLP0029171 DZLP000291 DZLP000291 DZLP000291 DZLP000291 DZLP000291 DZLP000291 DZLP000116 DZLP00009 DZLP0000 | |
| DZLF0000171 DZLF000016 DZLF0000016 DZLF0000001 DZLF00000001 DZLF0000001 DZLF0000001 DZLF0000001 DZLF0000001 DZLF0000001 DZLF0000001 DZLF0000001 DZLF0000001 DZLF00000001 DZLF00000001 DZLF00000001 DZLF00000001 DZLF00000001 DZLF00000001 DZLF00000001 DZLF000000001 DZLF000000001 DZLF00000001 DZLF000000001 DZLF000000001 DZLF000000001 DZLF000000001 DZLF000000001 DZLF000000001 DZLF000000001 DZLF0000000001 DZLF000000001 DZLF000000001 DZLF0000000001 DZLF0000000001 DZLF000000000000000000000000000000000000 | |
| - DZLF000020 - DZLF000020 - DZLF000016 - DZLF000116 - DZLF000000 - DZLF000000000000000000000000000000000000 | |
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| DZI_FO00086 | |
| - DZLF000150 - DZLF000085 - DZLF000085 - DZLF0000150 - DZLF000160 - DZLF000116 - DZLF000016 - DZLF0000016 - DZLF000016 - D | |
| - DZI_F000085 - DZI_F000015 - DZI_F0000165 - DZI_F0000165 - DZI_F0000165 - DZI_F0000166 - DZI_F0 | |
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| - DZLAMOO1142 - DZLAMOO116 - DZEFOOO116 - DZEFOOO16 - DZLFOOO016 - DZLFOOO016 - DZLAMOO019 - DZLAMOO019 - DZLAMOO019 - DZLAMOO160 - DZLAMOO160 - DZLAMOO160 - DZLAMOO160 - DZLAMOO160 - DZLAMOO160 - DZLAMOO160 - DZLAMOO160 - DZLAMOO160 - DZLAMOO160 - DZLAMOO160 - DZLAMOO160 - DZLAMOO160 - DZLAMOO160 - DZLAMOO160 - DZHOOZ60 - DZHPOOZ66 - DZHPOOZ66 | |
| DZEF000116 DZEF00016 DZEF00016 DZIF000016 DZIF0000186 DZIF0000186 DZIA000186 DZIA0000186 DZIA0000186 DZICO00001 DZICO00001 DZICO00001 DZICO00001 DZICO00001 DZICO00001 DZICO00001 DZICO00001 DZICO00001 DZICO00001 DZICO000086 DZICO000866 DZIA0000866 DZIA0000866 | |
| DZKP000156 | |
| DZJB000016 | |
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| DZKN00006 DZKN00006 DZKN00006 DZLA00008 DZLA000149 DZLA00016 DZLA00016 DZLA00016 DZLA00016 DZLA00016 DZLA00016 DZLA00016 DZLA00016 DZLA00016 DZLA00016 DZLA00016 DZLA00016 DZLA00016 DZLA00016 DZLA00016 DZLA00016 DZLA00016 DZLA000016 DZLA00001 DZLA000016 DZLA0 | |
| DZI-000038 DZI-000038 DZI-000038 DZI-000038 DZI-000038 DZI-000014 DZI-000165 DZI-000165 DZI-000165 DZI-000165 DZI-000165 DZI-000165 DZI-000165 DZI-000165 DZI-000165 DZI-000165 DZI-000165 DZI-000165 DZI-000038 | |
| DZI-700038 DZI-700149 DZI-700149 DZI-700149 DZI-700169 DZI-700169 DZI-7000165 DZI-7000165 DZI-7000166 DZI-7000166 DZI-7000166 DZI-7000066 DZI-7000096 DZI-7000096 DZI-7000096 DZI-7000099 DZI-7000299 DZI-7000299 | |
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| DZZA000099 DZZA000161 DZJA000165 DZJA000165 DZJA000166 DZJA000166 DZJA000166 DZJA000166 DZJA000166 DZJA000166 DZJA000166 DZJA000166 DZJA000089 DZJA000089 DZJAFPO00200 DZJAFPO00009 DZJAFPO000009 DZJAFPO00009 DZJAFPONO0009 DZJAFPONO0009 DZJAFPONO0009 DZJAFPONO0009 DZJAFPONO0009 DZJAFPONO0009 DZJAFPONO0009 DZJAFPONO0009 DZJAFPONO0009 DZJAFPONO0009 DZJAFPONO0009 DZJAFPONO0009 DZJAFPONO0000 DZJAFPONO0000 DZJAFPONO0000 DZJAFPONO0000 DZJAFPONO0000 DZJAFPONO0000 DZJAFPONO0000 DZJAFPONO0000 DZJAFPONO0000 DZJAFPONO0000 DZJAFPONO0000 DZJAFPONO0000 DZJAFPONO0000 DZJAFPONO000 DZJAFPONO0000 DZJAFPONO0000 DZJAFPONO0000 | 1 |
| DZIA000096 DZIA000167 DZIA000167 DZIA000168 DZIA000168 DZIA000168 DZIA000168 DZIA000169 DZIA000169 DZIA000169 DZIA000000000000000000000000000000000000 | |
| DZKPO00167 DZLA00016 DZLA000165 DZLA000166 DZLA000166 DZLA001664 DZLA001664 DZLA001664 DZLA001664 DZLA001664 DZLA001664 DZLA001664 DZLA001664 DZLA0001664 DZLA000026 DZLTC000003 DZHT000004 DZTC000003 DZHT000004 DZTC000003 DZHT000004 DZTC000003 DZHT0000066 DZEC100578 DZEC100584 DZLA0000666 DZLA0000666 DZLA0000666 DZLA0000666 DZLA0000666 DZLA0000666 DZLA0000666 DZLA0000666 DZLA0000666 DZLA0000666 DZLA0000666 DZLA0000666 DZLA0000666 DZLA0000666 DZLA0000666 DZLA0000666 DZLA0000666 | 1 |
| DZL4000115 DZL4000116 DZL4000116 DZL4000116 DZL4000166 DZL4000167 DZL4000167 DZL4000167 DZL4000167 DZH7000003 DZH7000003 DZH7000003 DZH7000003 DZH7000003 DZH7000003 DZH7000003 DZH7000003 DZH7000003 DZH7000003 DZH7000003 DZH7000003 DZH70000066 DZH70000066 DZH70000066 DZH7000066 DZH7000066 DZH7000066 DZH7000066 DZH7000066 | 20 |
| 02L4000165 02L4000166 02L4000167 02L4000167 02L4000167 02L4000167 02L4000167 02L4000167 02L4000167 02L4000069 02L4000069 02L4000090 | (A) (A) (A) (A) (A) (A) (A) (A) (A) (A) |
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| DZLANOD165 DZLANOD165 DZLANOD166 DZLANOD1661 DZANOD1664 DZHPOD1664 DZHPOD1664 DZHPOD2406 DZHTOD0003 DZHTOD0003 DZHTOD0003 DZHTOD0003 DZHTOD0003 DZHTOD0003 DZHTOD0003 DZHTOD0003 DZHTOD0003 DZHTOD0003 DZHTOD0003 DZHTOD0003 DZHTOD0003 DZHTOD0003 DZHTOD0003 DZHTOD0003 DZHTOD0003 DZHTOD0003 DZHTOD0003 DZHTOD00366 DZLANOD066 DZLANOD066 DZLANOD066 | 7 |
| DZLAKOD165 DZLAKOD167 DZLAKOD167 DZLAKOD167 DZHOD0522UNA DZHTOD0003 DZHTOD0039 DZHTOD0039 DZHTOD0039 DZHTOD0039 | |
| 10.27.4000167 10.27.4000562 11.08632921NL 10.21.4000064 10.21.4000003 10.21.4000003 10.21.4000003 10.21.4000003 10.21.4000003 10.21.4000009 10.21.4000009 10.21.4000009 10.21.400009 10.21.400009 10.21.400009 10.21.400009 10.21.400009 10.21.400009 10.21.400009 10.21.400009 10.21.400009 10.21.400009 10.21.400009 10.21.400009 10.21.400009 10.21.400009 10.21.400009 10.21.400009 10.21.400009 10.21.400009 | |
| LINGG3282UNI LINGG3282UNI LINGG3282UNI LINGG3282UNI DZHP001684 DZGB000020 DZHT000003 DZHT000001 DZHT000001 DZHP002405 DZHP002405 DZHP002405 DZHP002405 DZHP002405 DZHP002405 DZHP002405 DZHP002405 DZHP002405 DZHP002405 DZHP002405 DZHP002405 DZHP002405 DZHP002405 DZHP002405 DZHP002405 DZHP002685 DZHP002685 | |
| 1.0685292UNA 1.01663292UNA 1.01663292UNA 1.0167630000000000000000000000000000000000 | |
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| DZHP001664 DZGB000020 DZHT000003 DZHT000003 DZTC000002 DZTC0000003 DZHP002407 DZHP002406 DZHP002406 DZHP000098 DZHP000089 DZEF000089 DZFP000089 DZLF000089 DZLF000089 DZLF000089 DZLF000089 DZLF000089 DZLF000089 DZLF000089 DZLF000089 DZLF000089 | |
| DZGB000020 DZH1000003 DZH1000003 DZH1000004 DZTC000003 DZH0002407 DZHP002406 DZHP002407 DZTC000008 DZTC000008 DZTC000008 DZTC000086 DZLM000086 DZLM000086 DZLM000086 DZLM000086 | 1 |
| DZHT00003 | |
| DZHT000004 | |
| DZTC00003 DZTC00003 DZTC00002 DZHP002406 DZHP002407 DZTE0100578 DZEC100578 DZEC100578 DZEC100568 DZEC100568 DZJM00008 DZJM00008 DZJM00008 DZJM00008 | |
| DZTC000002 DZHP002407 DZHP002407 DZTP002407 DZTF00008 DZEC100264 DZEC100264 DZEC00029 DZFP000896 DZLF000896 DZLF000896 DZLF000896 DZLF000896 DZLF000896 | 02.4 |
| DZKP000001 DZKP000001 DZHP002405 DZHP002407 DZTE000068 DZEC100264 DZEC100264 DZEC00029 DZFP000696 DZLF0000696 DZLF0000696 DZLF0000696 DZLF0000696 | |
| DZHP002405 DZTP002405 DZTE00009 DZEC100578 DZEC100584 DZEC100584 DZEC100586 DZEC100586 DZHP00266 DZHP000266 DZHP000266 DZHP000266 | |
| DZHP002407 DZHP002407 DZTP000008 DZEC100264 DZEC100268 DZLF000026 DZFP000066 DZLF000066 DZLF000066 DZLF000066 DZLF000066 DZLF000066 DZLF000066 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
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| DZEC10028 DZEC100278 DZEC100264 DZIM000046 DZIM000039 DZI-P000256 DZI-M000086 DZI-M000086 DZI-M000086 DZI-M0000863 DZI-M0000863 | 11111111111111111111111111111111111111 |
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| DZIM000046 DZGG000029 DZFP000696 DZI-000256 DZI-M000086 DZI-M000086 DZI-M000563 DZI-F000257 | V(UF-885) |
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| - XSN3+W8FC Screw | 111111111111111111111111111111111111111 |
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7.5 Fuser Unit

| Ref. Safety Part Number Description No. Mark | Description | | AUAG | AAAB | AUAGAAABADAE | AFAGAHAJ | | ANAL | | UF-885 AMANAPAGAHASATAVAW | NHAS. | ATA | A KE | VCYG | MYLY | <u>}</u> | X. | AUAG | ABAE | UF-895 EEYGYGYJYMYTYVŶYWYXAUAGABAFAGAHAKALAMAPAHATAVAWEEYGYGYVYX | KALA | UF-895 AMAPA | ната | VAWEE | rdva | ۸۸ | Location | |
|---|--|---|-------------------|--------------|--------------|---------------|--------------|--------------|--------------|------------------------------|--------------|--------------|------------|----------------|--------------|--------------|--------------|------------------|--------------|---|--------------|-----------------|------|--------|----------|---------------|--------------------|---------------|
| П | Cover, Fuser 1 1 1 1 1 1 | 1 1 1 1 | - | | Ξ | = | | = | - | = | Ξ | = | - | - | - | | - | 1 | - | 1 | - | | - | - | 1 | 1 1 | | |
| Т | Roller, Idle | - | - | | _ | | - | - | = | = | - | | | - | - | - | | = | | | | | | | |) | 20 | ~_ |
| DZICO00082 Terminal C. Fuser Lamb 11 11 1 1 1 1 1 | Terminal C. Fuser Lamp 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 | | | | | - | - - | | - - | | | - - - - | - - | | | - | | | | | | | | | | 15, 10 | _ |
| | Thermistor Assembly 1 1 1 1 1 1 1 1 1 1 | | - - - | - | Ι. | Ε | - | - | <u>-</u> | <u>-</u> | - | - | - | - | - | 1 1 | - | - | - | - | 1 | - | - | 1 | 1 1 | 1 1 2B | - | _ |
| DZJL000017 Terminal A, Fuser Lamp 1 1 1 1 1 1 | Terminal A, Fuser Lamp | 11111 | 1 1 | - - | | Ξ | = | - - | - | F | - | 1 1 | 1 1 | 1 1 1 | 111 | 1 1 | 1 1 1 | 1 1 | - | | 1 1 1 | 111 | 111 | 111 | 111 | 1 30 | | _ |
| | Terminal B, Fuser Lamp [1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 | 1 1 1 1 | 111 | Ľ | 1 | 1 | 1 | 1 1 | 1 | 1 | 111 | 111 | 1 1 | - | 1 1 | 1 1 | 111 | 1 | 1 | 111 | | 111 | 111 | 111 | 1 1 4D | | |
| DZGN000006 Lamp, Fuser(115V) 1 1 - - 1 1 | 1111-1-11 | - - 1 | - - 1 | [1] | ĽH | - | <u> </u> | - | • | • | • | - | • | 1 | • | • | • | 1 | - | • | - | - | - | - | - | - 48 | | |
| | 1-1 | | 1 1 1 1 1 | 11-11 | -1 | Ξ | 1 | - | 1 | 1 | = | - | Ξ | - - | - | - | - - | - | - | 1 | 1 | - | 1 | 111 | 1 1 | 1 1 4B | | |
| Т | Roller 7, Pressure | | - , - , - , | - · | - - | ∓ , | = - | \ · | = . | | = | = ; | - · | - - | | ; ; | | = - | | = - | = - | | - - | = : | | 1 | 5D | _ |
| DZLMOCOCA! Bushing, Pol.5.3 | Bushing, Pol.5.3 | | | | - - | ٦, | - - | | - - | - - | ļ. | - | - | - - | - · | • | - - | | • | • | | | • | - | | <u>ار</u> | 11 | _ |
| DZKNIOOOBS Prate, Pressure Houer | Spring Descript | | | | -[- | _ | - - | - | | - - - | - | - | - | | - - - - | | - - | - - | - - | | - | | | - - | | ည် | 50, /E | $\overline{}$ |
| Т | Brush, Discharge, Front | | | - | - | - | F | E | - | - | E | - | - | - | - | - | | | - | - | - | - | - | | - | 1 1 | 5 | _ |
| T | Roller, Fuser | | - | - | - | 1_ | - | <u>-</u> | - | - | - | - | - | - | <u>-</u> | - | - | - | - | - | = | - | - | - | - | 1 - | | _ |
| DZJB000023 Frame, Fuser | Frame, Fuser | 11111 | 1 1 1 1 | 1 - 1 | - | | - | <u>-</u> | <u>-</u> | = | Ξ | - | = | 1 | 1 | 1 | <u>-</u> | - | - - | - | = | = | - | - | = | 1 1 70 | | |
| DZLM000047 Bushing, P17L6.8 | Bushing, P17L6.8 | 1 1 1 1 1 1 | | | - | | - | Ε | Ξ | - | - | 1 | - | - | 1 | 1 1 | - | = | - | - | = | = | - | - | - - | 1 1 5B, | 7E | Т |
| DZLF000147 Gear, Drive, E24 | Gear, Drive, E24 | 1 1 1 1 1 | | - | - | 1 | Ξ | - | - | = | - | 1 | - | 1 | 1 | 1 1 | - | - | - | - | = | = | = | - | - | 1 1 | | 7 |
| DZPJ000002 C-Ring | C-Ring | 1 1 1 1 1 1 | 1 1 1 1 | 1 1 1 | - | | = | = | - | = | = | - | - | - | - | 1 1 | - | - | - | - | = | Ξ | = | | - | 1 1 5A | 5A, 7E | 7 |
| DZLF000148 Gear, E14 | Gear, E14 | 1 1 1 1 1 1 1 | 1 1 1 1 | 1 | = | | = | F | - | - | = | - | - | 1 | 1 | 1 1 | - | = | - | - | - | = | = | - | - - | 1 1 6A, | 6A, 6B | $\overline{}$ |
| | Actuator, Exit, Paper 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1111111111 | 11111 | 111 | | Ξ | 1 | 1 1 | 1 | - | 1 | 1 | 1 1 | 1 | 1 1 | 111 | 111 | 1 | 111 | 1 1 1 | 111 | 111 | 111 | 1111 | 1 1 1 LC | | _ |
| | Roller, Eject | 1 1 1 1 1 1 1 1 1 1 1 1 | 111111 | 11111 | 1 | | 1 | - | - | - | - | - | 1 | - | - | 1 1 | 1 | - | - | 1 1 | 11 | - | 1 | 111 | 111 | 1 1 7B | | _ |
| | Bushing, P3.5L11.2 (Black) 1 1 1 1 1 1 1 1 1 1 | 11111 | 11111 | - - - | - | _ | - | = | = | = | Ξ | = | = | - | - | 1 | - | - | Ξ | = | - | = | = | = | - | မ္တ = = | | _ |
| | Bushing, P3.5L11.2 (White) 1 1 1 1 1 1 1 1 1 | | - | - - - | - | -+ | = | = | - - | - | | - | - | - | - | - | - | - | - | - | = | = | = | Ξ | - - | ₩ - | | _ |
| | Gear, E22 | | - | - | = | 4 | - | - | - | = | = | = | = | - | | - | - | - | = | = | - | = | | = | - | 1 1 6A | | _ |
| T | Guide, Paper, Lower 1 1 1 1 1 1 1 1 1 1 1 | 111111 | 1 1 1 1 | 1 1 1 | - | _ | - | = | - | - | - | - | = | - | = : | | - | - | - | - | - | - | - | - | - | 1 1 8B | | _ |
| | Brush, Discharge, Rear | 111111 | 1 1 1 1 | 1 | - | _ | - | | - | = | = | - | = | - | - | - | - | - | - | - | - | - | - | = | - | 1 8A | | |
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| | Thermostat 2 [1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 | 11111 | 111 | _ | 111 | 111 | 1111 | 111 | 111 | 1 1 | 111 | 1 1 | 1 1 | 1 1 | 1 1 | 1 1 | 1 | 1 | 111 | 111 | 111 | 111 | 1111 | 1 30 | | $\overline{}$ |
| | Thermal Fuse [1] 1 [1] 1 [1] 1 [1] 1 | 111111111 | 11 11 11 1 | 111111 | Ħ | Ξ | 1 | 1 | 11 | - | 1 | 1 1 | 1 | 1 | 1 | 1 | 111 | 1 11 | - | - - | - | Ξ | = | Ī | - | 1 1 | | $\overline{}$ |
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| | Screw 1 1 1 1 1 1 1 1 1 | 111111 | 1 1 1 | <u>-</u> | L., 1 | Ξ | = | Ē | - | - - | - | 1 | + | 1 | - | - | - | - | Ē | Ē | Ξ | Ξ | Ξ | = | - | 1 1 16, | IG, 1H, 1K, 2H, 8D | $\overline{}$ |
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| ပ | Screw 1 1 1 1 1 1 1 1 1 | 111111 | - - - | - | L. | Ε | E | Ξ | <u>-</u> | Ŧ | Ξ | - | - | 1 | + | - - | 1 1 | 1 | Ē | - | 11 | Ξ | 1 | 1-1 | 111 | 1 1 3B, | 3B, 7B, 7E, 8D | _ |
| XYN3+F10 Screw 1 1 1 1 1 1 1 1 1 | Screw 1 1 1 1 1 1 1 1 1 1 | 111111 | 1 1 1 | - | _ ' | Ξ | Ξ | = | - | - | = | = | = | - | = | - | - | - | - | <u>-</u> | - | - | 111 | 111 | 111 | 1 1 2A | | |

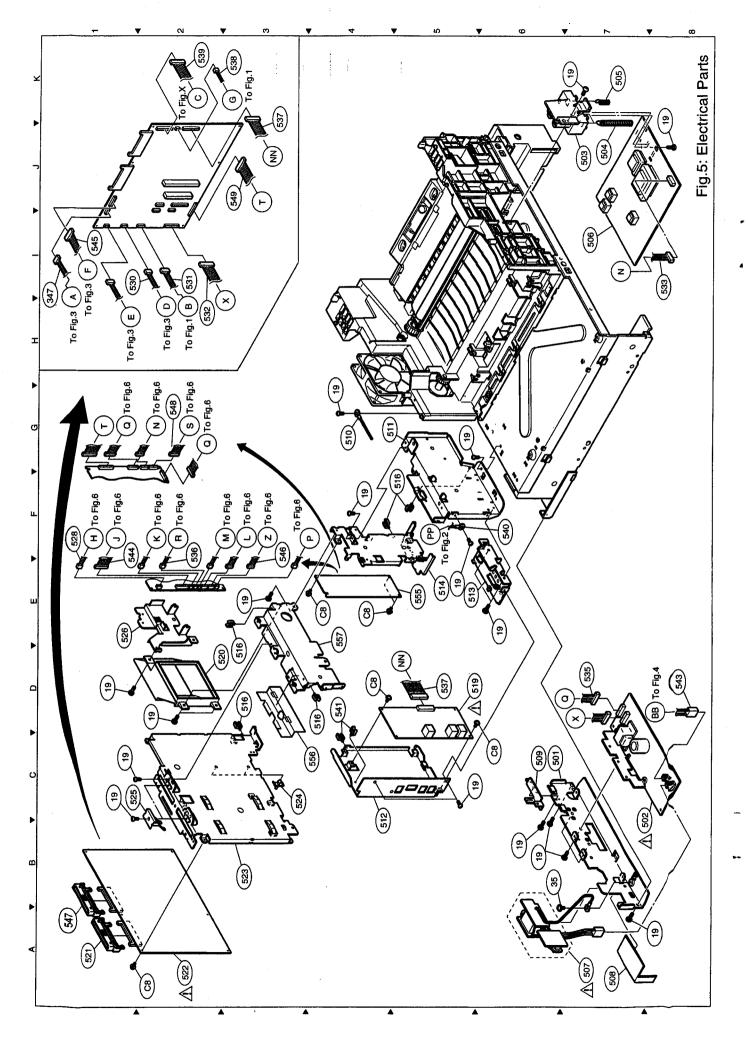
Note: If the Thermostat (Ref. No. 432) and/or Thermal Fuser (Ref. No. 433) is damaged by a Fuser over heat condition, the parts marked with "*" may also be damaged and should be replaced at the same time as the Thermostat and/or Thermal Fuse or replace the entire Fuser Unit.



7.6 Electrical Parts

| Ref. Safety | Part Number | Description | AUA | ALIACIABABABABAB | Ana | 1 4 | GAMAR | AMARIAM | Z | APACAR | ASATA | AVAWEE | SAC A | V. IVNVT | *** | VXALIA | ACABABAG | ¥ | AMAL | AMADAR | PATAV | VAWEE | YOYGYYY | V VX | Location |
|---|---------------|-----------------------------|--------------|------------------|--------------|----------|---------------|--------------|--------------|--------------|--------------|----------|--------------|----------|--------------|---|--------------|--------------|----------|--------|-----------|----------|--------------|--------------|---|
| | | | | į | | C | ċ | | É | | • | | | | | | | | | | į | | | | |
| 10 | 1A000140 | hassis. Power Supply PCB | = | - | F | - 11 | - | - | - | - | 7- | - | + | F | 上 | F | ŧ | - | - - | - | T- | ┰ | - | _ | 29 |
| Δ ET | ETXDN218A7D P | PSU, Low Voltage (100V) | = | <u> </u> | - | 1 | | F | - | | F | F | F | E | ŀ | E | E | [| F | ŀ | H | - | | • | 78 |
| 1 | XDN218E7D | SU, Low Voltage (200V) | <u>:</u> | - | <u>·</u> | - | - - | = | 1 | <u>-</u> | Ξ | 1 | <u>-</u> | = | - | <u>-</u> | Ė | E | = | = | = | = | = | - | 78 |
| | JA000139 | erminal Cover, High Voltage | 1 | Ī | 1 | 11 | 111 | - | 1 1 1 | 111 | Ξ | - | Ξ | - | - | 1 1 1 | 111 | 1 | 1 | 1 | 1 | 1 1 | 11 | 111 | 7.1 |
| 05 | DZKN000069 S | Spring, Coll | - | = | - | - | - | - | Ξ | - | = | = | = | | - | - | = | <u>-</u> | = | = | | = | - - | - | 72 |
| DŽ | KN000070 | spring, Coll | = | Ξ | = | - | = | = | = | = | | | | - | - | 1 | - | = | = | = | = | Ξ | <u>-</u> | - | 7K |
| - 1 | KMBN659HU | PSU, High Voltage | - | Ξ | - | | - | = | = | - - | - | = | - | = | = | = | - | - | = | = | Ξ | = | - | - | 71 |
| <u>Z</u> | YNA1556E | C Board, ACI | = | = | = | - - | - | - | = | = | Ξ | | = | = | = | - | = | = | = | = | Ξ | Ξ | - | - | 7A |
| 20 | THA000124 (S | Shield, Mylar | = | _ | Ξ | = | = | - | = | - | = | = | = | = | = | ======================================= | - | - | = | = | Ξ | = | = | = | 7A |
| DZ | "JA000610 | Bracket, Connection | - | - | Ē | Ε | - - | = | 1-1-1 | - | - | - | 1 1 | - | - | 1 1 1 | 1 | Ξ | F | Ē | E | Ξ | Ξ | - | 90 |
| ZO | DZJK000032 | lamess Tie, Insulated | 1 | - | E | - | - - | = | = | - | 111 | 111 | 1111 | | | - | = | Ξ | <u>-</u> | = | Ξ | = | = | - | 46 |
| 2 | ı | tracket. Rear | - | - | Ē | - | - | - | - | - | - | - | - | - | = | 1 | - | E | - | = | = | - | E | - | 56 |
| C | 1 | Tracket LCU | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 40 |
| 02 | 1 | tracket Rail LCU | - | + | - | - | - | - | - | = | - | - | - | - | - | - | - | - | + | - | - | - | - | - | 5F |
| î | ł | Tracket I PC | - | - | - | - | - | E | - | - | - | - | - | - | - | - | - | F | - | - | - | | - | - | 200 |
| 6 | 1 | Jamo. Hamess | | | E | F | | | | E | - | | | | | | F | E | F | | | - | - | - | 30.40.5F |
| DZ | DZYNA1435J | PC Board, LCU | = | - | Ė | - | · | ŀ | <u> </u> | : | 1 | - | | [| • | = | ŀ | E | | | | - | [| • | 5D |
| 70 | YNA1436BF | C Board, LCE | - | <u>-</u> | - | Ŀ | <u>:</u> | Ŀ | - | : | ŀ | | | | • | <u> </u> | Ξ | E | | | | - | - | • | 5D |
| <u> 0</u> | YNA1435H | C Board, LCU | Ė | | - | Ŀ | · | : | - | ŀ | ŀ | H | | | • | ŀ | | Ē | • | | - | - | • | • | 5D |
| 02 | DZYNA1435K F | C Board, LCU | - | ŀ | - | | - | | F | | ŀ | | | | | | : | : | • | : | : | : | • | | 5D |
| 20 | | C Board, LCE | - | - | Ŀ | | | - | - | • | | ŀ | - | | | | | [| - | Ė | ŀ | - | • | • | 5D |
| 10 | DZYNA1436KF F | C Board CF | | ŀ | | - | | - | + | : | | ŀ | ļ | F | ŀ | - | | F | Ţ | †: | 1 | 1 | ŀ | | 20 |
| î | DZYNA1436I D | C Board LCF | + | | ŀ | 1 | - | | + | - | † | - | | F | 1 | - - | | F | - | + | + | 1 | - | | 202 |
| 1 | VNA1436WE | Roard I CE | | + | 1 | + | $\frac{1}{1}$ | + | + | I | + | - | | F | | ļ | ł | ſ | 1 | + | ŧ | + | Ŧ | Ī | |
| 16 | VNIA1436MC | C Board CE | + | + | + | + | - | + | + | I | + | + | | | 1 | | + | 1 | 1 | + | + | 1 | 1 | 1 | 9 |
| | VALA 426VE | C Dograf C C | + | + | 1 | 1 | 1 | # | + | 1 | + | + | + | 1 | : | | | 1 | | : | 1 | | · [| • | 000 |
| 7 C | THAT POOKE | C Doald, LOE | - | : | 1 | 1 | | + | + | | + | 1 | <u>:</u> | 1 | • | <u>:</u> | - | 1 | | - | : | - | ·] | - | 90 |
| | WAI SEOVE | C board, LCE | + | + | + | <u>.</u> | • | : | + | • | <u>:</u> | 1 | : | - | | + | - | 1 | | • | 1 | • | 1 | • | De la companya de la |
| - 1 | TINAIASONE | C board, LCE | : | + | + | 1 | <u>·</u> | + | + | | + | | | - | • | : | • | • · | • | - | | | • | : | 50 |
| 7 <u>7</u> | YNA1436PC | C Board, LCE | • | - | | 1 | - | | : | - | - | <u>:</u> | | 1 | | | - | | • | • | - | • | • | • | 50 |
| 빝 | YNA1436ZF | C Board, LCE | , | • | | • | • | • | • | • | • | • | | • | | | • | · | • | • | - [-] - | • | • | • | 50 |
| ă | DZYNA1436TE F | C Board, LCE | • | • | • | - | • | • | - | • | • | • | • | | • | - | | - | • | • | • | • | : | | OS . |
| 2 | YNA1436EE | C Board, LCE | • | • | • | • | • | • | • | • | • | | • | • | • | · · | | - | - | Ė | Ė | Ŀ | : | 1-1-1 | 5D |
| DZ | TYNA1436HC | C Board, LCE | - | Ė | <u> </u> | • | , | F | - | Ŀ | ŀ | Ŀ | | • | • | | | [| | | F | - | [| | 50 |
| 20 | YNA1436YC | C Board, LCE | - | ŀ | ŀ | - | | - | - | | Ė | ŀ | ŀ | - | | | | E | ŀ | † | ļ. | | Ŀ | ŀ | 50 |
| Ê | VNA1436SC E | P. Board I CE | | ŀ | | 1 | | + | + | - | ļ | | | I | 1 | + | ļ | - | 1 | † | ‡ | + | T | Ī | |
| Ŷ | VNA1436NC | C Board CE | + | 1 | 1 | 1 | Ī | + | + | | Ŧ | 1 | | - | | + | + | 1 | - | + | + | + | | | 200 |
| 3 2 | 200001400000 | C Dogle, LOE | + | - | + | :[| • | | : | : | : | :[| : | :[| • | + | + | 1 | 1 | # | † | 1 | • | • | 00 |
| ᆥ | 1 NA 1450CC | C Dogla, LCE | + | + | + | · [| • | : | : | : | : | 1 | : | - | : | | + | • | - | + | + | 1 | | • | 90 |
| 컐 | UZTINA 1430CC | C Board, LOE | 1 | : | - | - | • | <u>.</u> | : | : | - | • | : | | • | | - | - | | - | | - | • | • | 5 D |
| 2 | YNA1436UF | C Board, LCE | - | - | | <u>.</u> | • | : | <u>:</u> | • | • | <u>:</u> | • | <u>:</u> | - | | • | - |] | | - | • | - | 1 | 5D |
| ă | YNA1436GG | oc Board, LCE | + | | <u>:</u> | • | • | • | - | • | • | | - | • | • | - | - | • | · | • | | | - | • | 5D |
| | YNA1436GJ | C Board, LCE | • | • | • | - | • | | • | • | • | • | ÷ | • | - | | - | - | | Ė | - | Ŀ | <u>:</u> | - - | 5D |
| | EC101321 | C Board, LCE | | ÷ | - | 1 | 1 | • | 1 | - | - | 1 - 11 | - 1 | | | - | L | Ε | | = | - | - | - | • | 5D |
| | _ | PC Board, LCE | ŀ | Ŀ | - | Ė | - | | Ė | E | Ξ | ŀ | - | - | · | - | - | [| | Ė | = | | - | - | 50 |
| 20 | DZJB000116 [| Duct, Fan | = | = | Ξ | Ξ | - | = | - | Ξ | = | - | - | - | Ē | - | - | E | Ē | - | - | - | - | - | 20 |
| Ć. | | Stride 2 Memory Card | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | F | - | - | | - | - | • | 4 |
| 12 | | C Roard ECB (HE-885AA) | + | - | - | | | + | + | Ī | 1 | 1 | + | | | - | + | 1 | = | + | + | - | - | - - | X. |
| 10 | | C Board FOO (11 905 AD) | + | 1 | + | 1 | 1 | : | <u>:</u> | : | ; | | + | - | | + | - | 1 | | + | 1 | - | - | • | ZA |
| 3 2 | DZEC101204 | DO Down COD (115 Ope AC) | + | 1 | 4 | :[| : | : | + | | • | :[| <u>.</u> | • | + | + | + | 1 | <u>:</u> | : | : | - | • | • | ZA |
| 1 | | C Boald, PCB (UP-663AC) | + | <u>:</u> | : | : | | : | <u>:</u> | • | : | :[| : | :[| • | + | : | <u>-</u> | • | • | : | - | | • | ZA |
| 3 10 10 10 10 10 10 10 10 10 10 10 10 10 | | C Board, FCB (UF-883AU) | - | | = | <u>.</u> | • | : | <u>:</u> | • | • | - | | - | • | • | • | - | • | 1 | | • | • | • | 2 A |
| - 1 | | C Board, FCB (UF-885AE) | + | - | | <u>·</u> | · | | • | • | • | - | | • | - | - | • | - | - | • | • | • | • | • | 2A |
| ď | | C Board, FCB (UF-885AF) | - | | - | 11 | - | • | - | - | - | | - | • | | | - | • | - | - | - | <u>:</u> | - | • | 2A |
| 6 | | C Board, FCB (UF-885AG) | • | • | • | - | • | • | • | • | • | | - | • | • | | Ė | E | - | Ė | Ŀ | Ŀ | <u>:</u> | • | 2A |
| DZ | | C Board, FCB (UF-885AH) | | - | : | - | - | ŀ | - | - | Ė | Ŀ | Ė | E | • | | • | : | | : | ŀ | Ŀ | [| • | 2A |
| 2 | | C Board, FCB (UF-885AJ) | | - | ŀ | - | - | | | : | † · | | | - | | ŀ | Ė | E | ļ. | ľ | + | - | I | | 40 |
| 2 | | C Board, FCB (LIF-885AK) | | | | ŀ | - | - | | | †: | | ļ | F | | Ė | + | F | Ŧ | + | + | + | 1 | | V-1 |
| | | C Roard FCR (11E-885A1) | | ŀ | ŀ | | ŀ | - | | ŀ | ľ | - | | T | + | + | ‡ | I | 1 | + | + | + | | | W2 |
| 10 14 | | C Board ECB (115,005,011) | + | + | + | 4 | 1 | # | 1 | 1 | + | 1 | + | | 1 | + | • | • | | + | + | + | | • | ZA |
| | | O COMING OF THE SOLVERY | + | 1 | + | <u>.</u> | | <u>.</u> | - | | | :[| | • | 1 | | : | : | • | | 1 | | • | • | ZA |
| 3 2 4 • | | C Board, rCB (Ur-863AN) | <u>'</u> | + | - | - | • | • | - | • | - | - | | - | | - | • | • | • | | | • | • | - | 2A |
| Ž | | C Board, FCB (UF-885AP) | • | | - | - | • | | - | • | • | | - | - | | • | : | • | • | • | • | • | • | ∤・ - | 2A |
| DZ | | C Board, FCB (UF-885AQ) | • | | • | • | • | | , | - | • | - | • | • | | • | Ŀ | : | | - | F | ŀ | | • | ZA. |
| DZ | | C Board, FCB (UF-885AR) | • | • | • | Ŀ | \cdot | - | - | = | Ė | Ŀ | Ė | • | | | | • | | ŀ | | - | : | | 24 |
| Ê | | C Board FCB (LIE,895AS) | | ŀ | Ë | - | | | ľ | | + | + | + | I | † | + | ‡ | I | + | + | + | + | | | |
| 16 | | COCOCIO DO LO COCOCIO | + | # | + | 1 | : | ;† | + | : | <u>.</u> | | + | 1 | | + | - | • | | + | | | · · | • | ZA |
| 칠 | | C Board, FCB (UF-885A1) | • | | | 1-1- | | - | | - | - | | • | | • | | • | - | - | · · | : | | - | - | ΨC |
| ŏ | | C Board, FCB (UF-885AU) | = | - | | | | | | | | | | | | | | | 1 | | | _ | | - | 5 |
| 1. | ı | , and and a second | | ÷ | Ŀ | - | <u>:</u> | : | : | : | - | - | | | | ŀ | ŀ | | - | | Ë | - | Ŧ | Ŧ | 7V |
| | | Of Road FCR (IE-RSAV) | - | + | # | • | | | | | | # | | | | | H | | Ħ | - | Ħ | | \prod | \prod | 2A |

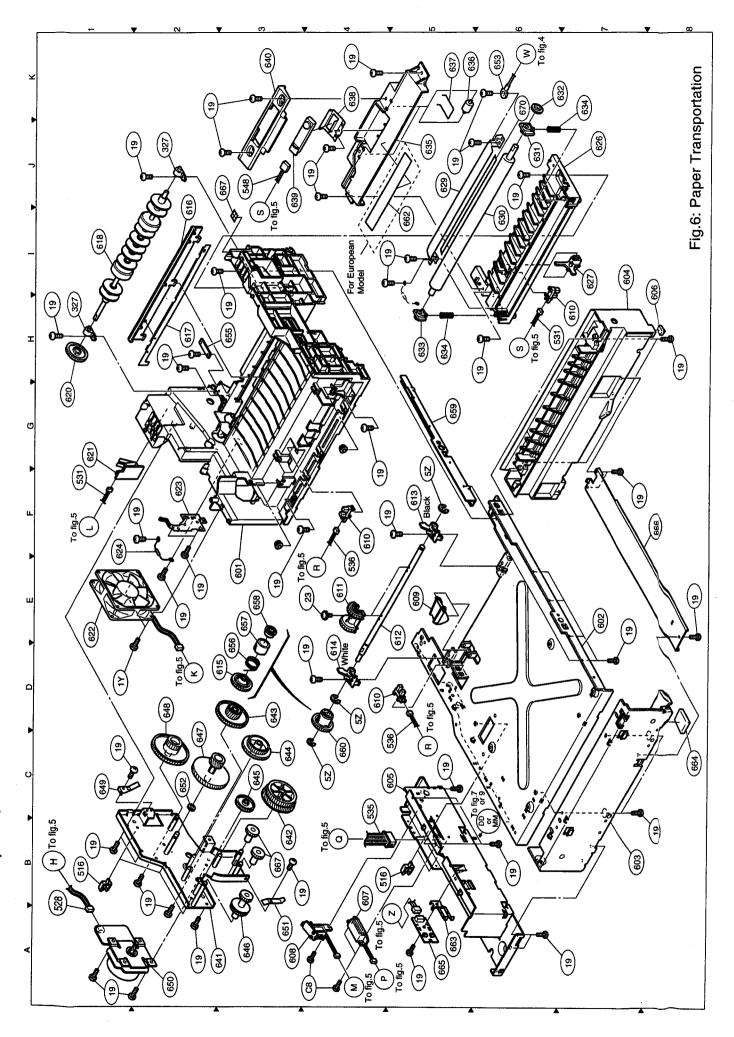
| | | Model Name | | | UF-885 | | UF-895 | | |
|------------|--|---------------|----------------------------|--|---|----------------------------|---|---|--------------------|
| | <u> </u> | Part Number | Description | AUACAAABADAEAFAGAHA.IAKA | AL AMANAPAGABASATAVAW | EEVCYGYJYMYTYWYWYX | ALIACABAFAGAHAKALAMAPARAT | AVAWEEYCYGYVXX | Location |
| <u>9</u> 8 | Mark | | 20 Board ECB (HE 995AW) | | | | | | |
| 200 | 3 <u>~</u> | | PC Board FCB (115-885FF) | | | | | A0 | |
| 382 | 4 | | O Board CCB (1F 99EVC) | | | | | VC. | |
| 200 | 3 | DZEC101439 | OC Roard FCB (11F-885VG) | | | | | 200 | |
| 2 | K | | PC Board FCB (IIE-885V.)) | | | | , | 2A | |
| 23 | 1 | | DC Board FCB (IIE-885VM) | | | | | AC | |
| 200 | 1 | | PC Board FCB (IIE-885VT) | | | | | 20 | |
| 8 | K | DZEC101400 | OC Roard ECR (IE-885VV) | | | 1 | | 46 | |
| 182 | 1 | | Donal CCD (15 posty) | | | | | 80 | |
| 1 2 | * | | DO DOOR FOR ALL BORNEY | | | | | W2 | , |
| 200 | # * | | 20 Board FOB (UF-0031A) | | | | | | |
| 700 | 1 | | TO DO IL TOP (UT SOLED) | | | | | V | |
| 775 | # | | PC Board, PCB (UP-895AC) | | | | | YZ | |
| 222 | 4 | | PC Board, FCB (UF-895AE) | | | | | 2A | |
| 225 | ┫ | | PC Board, FCB (UF-895AG) | | | | | 2A | |
| 255 | ⊒ V | | PC Board, FCB (UF-895AH) | | | | | | |
| 522 | \ <u>\</u> | | PC Board, FCB (UF-895AK) | | | | | AC | |
| 202 | ! | | PC Board ECB (UE-805A) | | | | - | VC. | |
| 1 6 | ************************************** | | Don't ECD (15 OCEAN) | | | | | ¥0 | |
| 3 5 | * | | TO BOATU, TOD (UT-0930-MM) | | | | | W3 | |
| 20 | 4 | | PC Board, PCB (UF-895AP) | | | | | | |
| 222 | ┛ | | PC Board, FCB (UF-895AR) | - - - - - - - - - - - | - - - - - - - - | | - - - - - - - - - | 2A | |
| 255 | ┩ | | PC Board, FCB (UF-895AT) | | | | | 1 2A | |
| 522 | T V | | PC Board, FCB (UF-895AU) | | | | | | |
| 523 | < | | OC Board FCR (HE, 805AV) | | | | | | |
| 66 | 1 | | D Board ECB (115-805AW) | | | | | 80 | |
| 1 5 | * | | TO DOUGHT FOR WIT SOUTH | | | | , | | |
| 222 | 4 | | PC Board, FCB (UP-895EE) | | | | | -1-1-11-1-1-12A | |
| 222 | 4 | | PC Board, FCB (UF-895YA) | | - - - - - - - - - | | - - - - - - - - - | - - - - - - 2A | |
| 222 | ┩ | | PC Board, FCB (UF-895YC) | | | | | | |
| 222 | ٦ | | PC Board, FCB (UF-895YG) | | | | | - - - - - - 2A | |
| 522 | <u></u> | | PC Board, FCB (UF-895YV) | | | | | 1 - 2A | |
| 522 | ⊒I V | | PC Board, FCB (UF-895YX) | | | | | - 1 2A | |
| 523 | ا ا | | Bracket, FCB | 1 | 1 1 1 1 1 1 1 1 | 111111111111 | 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 3B | |
| 524 | Ĭ. | | Spacer FCB PC Board | - | | | | 000 | |
| 202 | ١. | Τ | Plate Memory Card Ground | | | | | | |
| 202 | 1 | Τ | Bracket Fan Duot | | | | | | |
| 300 | 1 | 1 | Jones Do Motor | | | | - | | |
| 98 | | DZFFUUU094 | Damess, DC Motor | | | | | 1 1 1 1 1 1 1 | |
| 3 8 | 1 | | raileas, LED | | | 1 1 | | | |
| 3 | | | Hamess, LED | | 1 1 1 1 1 1 1 | | | | |
| | - | - 1 | Harness, SNS | 1 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 11 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 2 | |
| 235 | ٠ | | Hamess, POW | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 2H | |
| 533 | Ĭ | ı | Hamess, HVPS | | 1111111111 | 1 1 1 1 1 | 1 | 1 1 1 1 1 1 2 | |
| 535 | | ŀ | Hamess, SNS | | 11111111111 | | | 1 1 1 1 1 1 | |
| 536 | , | 1 | Hamess 1 SNS | | | | | 200 | |
| 537 | 1 | 1 | Hamose 1 Ci) | | | | | 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | |
| 230 | Ť. | 1 | Jamose CDE | | | | | 06,76 | |
| 200 | Ť. | ı | James Dill | | | | | 38 | |
| 240 | 1 | 1 | Ground Chron | | | | | S | |
| Ž | 1 | 1 | Clown Hamos | | - 7 | | | 10 | |
| 5 | 1 | | Jones Circuit | - 1 | | | | 1 1 40 | |
| 3 | 1 | ł | names, ruser camp | | | | | 1 1 1 1 1 1 1 8D | |
| \$ | -1 | UZFFUUUDBIS | Hamess, LSU | 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 2E | |
| 3 | • | - 1 | namess, ccu | | 1 | | 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 | |
| 8 | • | - 1 | Hamess, CCU | 1 | 1111111111 | 11 1 1 1 1 1 1 1 1 1 1 1 | | | |
| 24 6 | - | - 1 | Harness, SNS | | 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 1 | 11111111 | |
| 247 | - | - 1 | Guide 1, Memory Card | 11 | 1 1 1 1 1 1 1 1 1 1 | 11 11 11 11 11 11 11 11 11 | 1 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| 248 | • | - 1 | Harness, Toner Sensor | 1 | 11111111111111111 | 11 11 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 26 | |
| 249 | ٠ | - 1 | Hamess, LPC | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 111111111111111111 | 1111111111111111 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 3 | |
| 222 | <u>د</u> | | PC Board, LPC | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 | 1 | 1 1 1 1 1 1 1 1 5E | |
| 556 | • | l | Protector Film, Harness | 1 | 1 1 1 1 1 1 1 1 1 1 1 1 | | | | |
| 22/ | | H | Bracket, Memory Card | | | | | 1 1 1 1 1 1 1 1 1 1 | |
| 347 | | DZFP000696 II | Hamess, TMOT | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 | |
| | | | | | | | | 1C, 1D, 2D, 3E, 4F, 4G, 5 | E, 4F, 4G, 5C, 5E, |
| 6 | | - 1 | Screw | 1 | 11111111 | - - - - | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 5G, 6B, 6E, 7 | K, 8A, 8K |
| 96 | * | V TWATE | Scrow | | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 1 | 1 1 2 2 1 2 1 2 1 2 1 2 1 2 1 3 1 3 1 3 | 1 1 1 1 1 1 1 1 1 68 | |
| 3 | | - 1 | ociew | | 1 | 11 11 11 11 11 11 11 11 11 | 11111111111111111 | 1 1 1 1 1 1 1 1 1 2A. 4D, 4E, 6 | 0 |
| | | | | | | | | | |



7.7 Paper Transportation

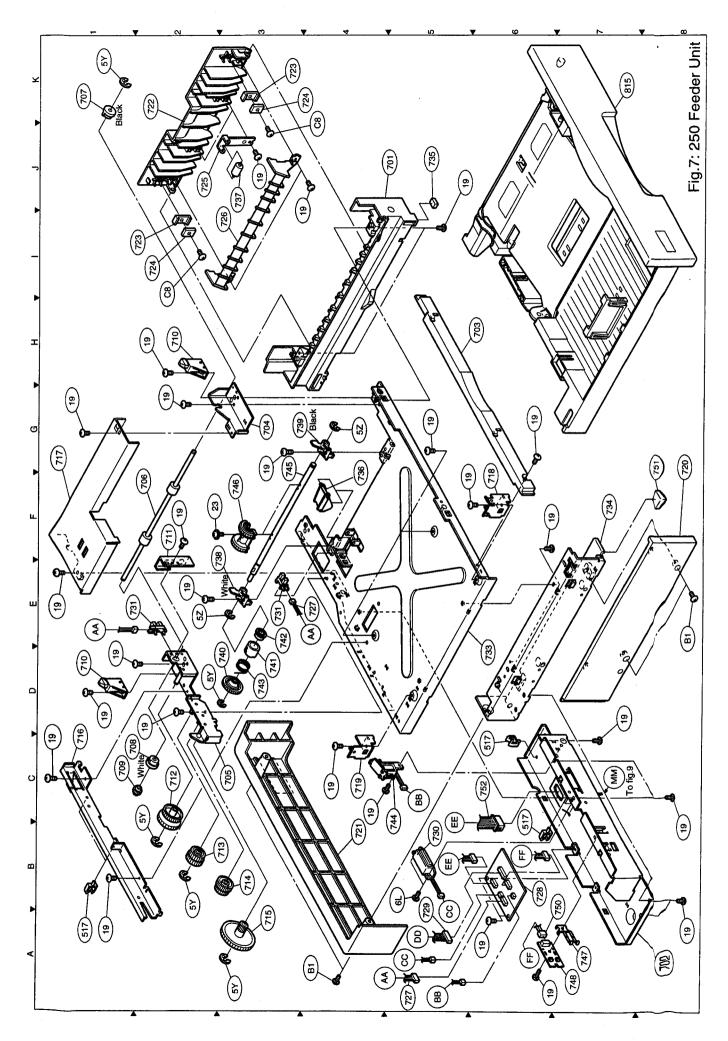
| Protection Pro | | Model Name | | 11 11 11 11 11 11 11 11 11 11 11 11 11 |
|--|-----------|-------------|---------------------------------|--|
| 1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0 | f. Safe | | Description | AGAHAJAKALAMANAPAGAHASATIAVAWEEYGYGYJYWYTTYVYWYXXAUAGABBABAGAHAKALAMAPAHATAVAW |
| DZJB000015 Base Frame 1 1 1 1 1 1 1 1 1 | + | 4= | Main Frame | |
| DZJ600023 Cassette Rail, Left | Ŀ | DZJB000015 | Base Frame | |
| DZJE000014 Cassette Fial, Right 1 1 1 1 1 1 1 1 1 | ļ, | DZ 14000237 | Cassette Bail Left | |
| DZI/000024 Start Right Start DZI/000024 Start Right Start DZI/000024 Start Right Start DZI/000015 Rubber Lead 1 1 1 1 1 1 1 1 1 | ļ | D7 IB000114 | Coccetto Doil Diaht | |
| DZINGO0015 Magnet, Catch DZINGO0015 Magnet, Catch DZINGO0015 Magnet, Catch DZINGO0015 Magnet, Catch DZINGO0020 Actuator, No Paper 1 1 1 1 1 1 1 1 1 | 1 | DZ 1000004 | Stav Bight 500 | |
| DZHP000155 Magnet, Calch 1 1 1 DZGT000017 Solentod, Paper Feed 1 1 1 DZAL000020 Sersor Timing 1 1 1 DZAL000030 Sharling, PBL 18, Front (Black) 1 1 1 DZLM000045 Bushing, PBL 18, Front (Black) 1 1 1 DZLM000051 Bushing, PBL 18, Front (Black) 1 1 1 DZLM000052 Paler, Ead 1 1 1 DZLF000131 Gear, Discharge, Plate 1 1 1 DZLF000122 Paler, Feed 1 1 1 DZLF000132 Paler, Feed 1 1 1 DZLF000128 Paler, Feed 1 1 1 DZLF000129 Fan Unit 1 1 1 DZLF0000 | ŀ | DZJNOOO15 | Bubberlad | |
| DZKK000020 Actuation, Pager Feed | Ţ, | DZHP000155 | Mannet Catch | |
| DZAKO00020 | ļ. | DZGT000017 | Solenoid, Paper Feed | V2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - |
| DZLA000033 Sensor, Timing DZLA000030 Shaft, Feed Feed DZLA000030 Shaft, Feed Feed DZLA000030 Shaft, Feed Feed DZLA000042 Bushing, PBL18, Front (Black) DZLA000042 Guide, Discharge, Plate DZLA000082 Guide, Discharge, Plate DZLA000082 Guide, Discharge, Plate DZLA000082 Gear, Dive, E34 DZLA000082 Fan Unit DZLA000093 Fan Unit DZRA000071 Shing, Ground Plate DZLA000093 Fan Unit DZRA000071 Shing, Ground Plate DZLA000099 Fan Unit DZRA000071 Guide, BTR DZLA000099 Bushing, BTR, Front (Black) DZLA000099 Bushing, BTR, Front (Black) DZLA000099 Bushing, BTR, Front (Black) DZLA000099 Bushing, BTR, Front (Black) DZLA000099 Bushing, BTR, Front (Black) DZLA000099 Bushing, BTR, Front (Black) DZLA000099 Bushing, BTR, Front (Black) DZLA000099 Bushing, BTR, Front (Black) DZLA000090 Spring, Plate, Tont Sensor DZLA000009 Spring, Plate, Tont Sensor DZLA000009 Spring, Plate, Tont Sensor DZLA000009 Spring, Plate, Tont Sensor DZLA000009 Spring, Plate, Tont Sensor DZLA000090 Spring, Plate, Tont Sensor DZLF000113 Gear, E30598 DZLF000113 Gear, E30598 DZLF000113 Gear, E30070 DZLF000114 Gear, E20070 DZLF000115 Gear, E20070 DZLF000119 Gear, E21070 DZLF000119 Gear, E21070 DZLF000119 Spring, Plate DZLF000119 Spring, Plate DZRF000001 Spring, Plate DZRF000001 Spring, Plate DZRF000001 Spring, Plate DZRF000001 Spring, Plate DZRF000011 Sing, Plate DZRF000001 Spring, Plate DZRF000001 Spring, Plate DZRF000001 Spring, Plate DZRF000011 Sing, Plat | Ŀ | DZKK000020 | Actuator, No Paper | |
| DZKA0000051 Ruleir, Pager Feed 1 1 1 1 1 1 1 1 1 | Ŀ | DZAL000053 | Sensor, Timing | 12 17 17 17 17 17 17 17 17 17 17 17 17 17 |
| DZIKGRO0030 Shaff, Feed Roller DZIKGRO0032 Shaff, Feed Roller DZIKGRO0032 Dushing, Pell 8, Front (Black) 1 1 1 1 1 1 1 1 1 | _ | DZLA000081 | Roller, Paper Feed | |
| DZLM000051 Bushing, PBL18, Front (Black) 1 1 1 1 1 1 1 1 1 | · | DZKG000030 | Shaft, Feed Roller | |
| - DZJEO00042 Geat: E94 - DZJEO00162 Guide Discharge Plate - DZJEO00162 Guide Discharge Plate - DZJEO00182 Guide Discharge Plate - DZJEO00182 Geat: Drive, E94 - DZJEO00182 Geat, Drive, E94 - DZJEO00193 Fan Unit - DZFRO00019 Fan Unit - DZRFO00019 Fan Unit - DZJEO0019 Fan Unit - DZJEO0019 Fan Unit - DZJEO0019 Fan Unit - DZJEO0019 Geat, BTR - DZJEO0019 G | ' | DZI_M000051 | Bushing, P8L18, Front (Black) | 1 |
| DZI/CO0013 Gladic_Discharge_Plate 1 1 1 1 1 1 1 1 1 | <u>. </u> | DZLM000042 | Bushing, P8L18, Rear (White) | 1 |
| DZLRO00062 Guide_Discharge_Plate 1 1 1 1 1 1 1 1 1 | ٠ | DZLF000131 | Gear, E34 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| DZJL0000022 Plate, Discharge 1 1 1 1 1 1 1 1 1 | • | DZJF000162 | Guide, Discharge, Plate | 1 |
| DZLA000082 Roller, ES44 1 1 1 1 1 1 1 1 1 | | DZJL000022 | Plate, Discharge | 1 |
| DZLF00019 Gear, Dhre, E34 DZYR000019 Fen Unit Conner 1 1 1 1 1 1 1 1 1 | <u>'</u> | DZLA000082 | Roller, Feed | |
| DZGPO00019 Fan Unit DZGPO00019 Fan Unit DZGPO00016 Fan Unit DZGPO00016 Fan Unit DZGPO00016 Fan Unit DZGPO00017 Guide, BTR Fan Unit DZGPO00017 Guide, BTR Fan Unit DZGPO00017 Guide, BTR Fan Unit Guide, BTR Fan Unit Guide, BTR Guide, BTR Guide, BTR Guide, BTR Guide, BTR Guide, BTR Guide, BTR Guide, BTR Guide, BTR Guide, BTR Guide, BTR Guide, BTR Guide, BTR Guide, BTR Guide, Guide, BTR Guide, Guide, BTR Guide, Guide, BTR Guide, | 1 | DZLF000132 | Gear, Drive, E34 | 111111111111111111111111111111111111111 |
| DZRF000001 Spring, Ground Plate 1 1 1 1 1 1 1 1 1 | 1 | DZYNA1555 | PC Board, ILS | 111111111111111111111111111111111111111 |
| DZEF000001 Sping, John Praise DZEF000001 Acustor Timing DZEF000001 Acustor Timing DZEF000003 Acustor Timing DZEF000003 Acustor Timing DZEF000003 Acustor Timing DZEF000003 Acustor Timing DZEF000003 Acustor Timing DZEF000003 Acustor Timing DZEF000003 Acustor Timing DZEF000003 Acustor Timing DZEF000003 Acustor Timing DZEF000003 Acustor Timing DZEF000003 Acustor Timing Acustor Timing DZEF000003 Acustor Timing Acustor Timing DZEF000003 Acustor Timing Acustor Timin | 1 | | Fan Unit | 1 |
| DZEROOOGO Areason, Timing 1 1 1 1 1 1 1 1 1 | 1 | 1 | Spring, Ground Plate | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| DZKCHOONG4 Guide, Transfer, Cower 1 1 1 1 1 1 1 1 1 | 1 | - 1 | Hesistor, 200M Onms, 1/2 Watt | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| DZKO00007 Acutation Initial | 1 | - 1 | Guide, Iransier, Lower | |
| DZLANOXOGY Guide, Files Transfer (BTR) 1 1 1 1 1 1 1 1 1 | 1 | - 1 | Actuator, Iming | |
| DZL/MOX0030 Rushing, BTR, Front (Black) 1 1 1 1 1 1 1 1 1 | 1 | - 6 | Guide, BIR | 1 |
| DZL/MOX0043 Bushing, BTR, Fear (White) 1 1 1 1 1 1 1 1 1 | 1 | | Holler, blas Transfer (BTH) | 1 |
| DZLN000024 Bushing, BTR, Rear (While) 1 1 1 1 1 1 1 1 1 | | | DUSTING, DITH, FROM (BIRCK) | 1 |
| DZKNOOCCCC DUSINIA, PITA, FRAIT VWRIE) 1 1 1 1 1 1 1 1 1 | 1 | | Deal, orn | 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| DZLRO00028 Spirity, Pinch Dizer DZLR000008 Spirity, Wite Pinch Roller 1 1 1 1 1 1 1 1 1 | ٠ | | Bushing, Birt, Hear (White) | 111111111111111111111111111111111111111 |
| DZLA000000 Roller, Pinch Roller | 1 | | Guide Transfer Honor | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| DZKP000003 Spring, Wilte, Pinch Roller 1 1 1 1 1 1 1 1 1 | 1 | | Boller Disch | |
| DZKPO00083 Spring, Plate, Torient Sensor 1 1 1 1 1 1 1 1 1 | 1 | | Spring Wire Pinch Boller | |
| DZANOXONZ Sersor Toner Toner DZANOXONZ Sersor Toner DZANOXONZ Sersor Toner DZANOXONZ DOSE, TONER TONER DZANOXONZ DOSE, TONER DZE, FOXO | | DZKP000083 | Spring, Plate, Toner Sensor | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| DZ_LB000042 Cover, Toner Sensor 1 1 1 1 1 1 1 1 1 | | DZAN000002 | Sensor, Toner | |
| DZL/MO00591 Bracket, Motor DZL/MO00591 Bracket, Motor DZL/MO00591 DZL/MO00107 Gear, E32B39 T. T. T. T. DZL/MO00107 Gear, E32B39 T. T. T. T. T. T. T. T | • | DZJB000042 | Cover, Toner Sensor | X6 |
| DZLF000146 Clear, F381898 1 1 1 1 1 1 1 1 1 | | DZJA000591 | Bracket, Motor | |
| DZLF000107 Gear_D25698 1 1 1 1 1 1 1 1 1 | | DZLF000146 | Gear, F36B98 | |
| DZLF00011 Gear, E22D53 1 1 1 1 1 1 1 1 1 | , | DZLF000107 | Gear, D25B98 | |
| DZLF000031 Gear_E18E27 1 1 1 1 1 1 1 1 1 | | DZLF000111 | Gear, E32D53 | |
| OZLF000113 Gear_E18EZ7 1 1 1 1 1 1 1 1 1 | \cdot | DZLF000031 | Gear, E29 | |
| DZEF000100 DZEF000000 DZEF0000000 DZEF00000000 DZEF00000000 DZEF00000000 DZEF00000000000 DZEF000000000 DZEF000000000 DZEF000000000 DZEF000000000000 DZEF000000000000000000000000000000000000 | ٠ | DZLF000113 | Gear, E18E27 | VC |
| DZKP000000 DZKP000000 DZKP000000 DZKP000000 DZKP000000 DZKP000000 DZKP000000 DZKP000000 DZKP000000 DZKP000000 DZKP000000 DZKP000000 DZKP000000 DZKP000000 DZKP000000 DZKP0000000 DZKP0000000 DZKP0000000 DZKP0000000 DZKP0000000 DZKP0000000 DZKP0000000 DZKP00000000 DZKP0000000 DZKP0000000 DZKP0000000 DZKP000000 DZKP000000 DZKP0000000 DZKP000000 DZKP000000 DZKP000000 DZKP000000 D | | DZLF000108 | Gear, E20D70 | 1 |
| DZG5000012 Printer Motor 1 1 1 1 1 1 1 1 1 | | DZLF000110 | Gear, E21D70 | 1 |
| DZE/GOX0012 Printer Motor DZE/GOX0012 Printer Motor DZE/GOX0010 Printer Motor DZE/GOX0010 Printer Motor DZE/GOX0010 Printer Motor DZE/GOX0011 Printer Motor DZE/GOX0011 Printer Motor DZE/GOX0011 Printer Motor DZE/GOX0011 Printer Motor DZE/GOX0011 Printer Motor | | DZKP000080 | Spring, Transfer Ground | 1 |
| DZFN00000 Spiring, Fraile DZFN00000 Spiring, Fraile DZFN00001 DZFN000215 Ground Strap DZLR00017 Stopper DZLR0000024 Case, Clutch DZLR0000024 Case, Clutch DZLR0000024 Case, Clutch DZLR000006 Drum. Clutch DZLR000006 Drum. Clutch DZLR000006 Drum. Clutch DZLR000006 Stay, Front DZLR000006 Cauton Label, High Temperature DZNR000048 Cauton Label, High Temperature DZRR000006 Spiring, Paper Size DZLR000009 Spiring, Paper Size DZLR000009 Spiring, Paper Size DZLR0000004 Rubber Leg (20) DZECIO0410 PC Boart, SSN 1 1 1 1 1 1 1 1 1 | • | 0266000012 | Printer Motor | 1 |
| DZFP000215 Ground Strap 1 1 1 1 1 1 1 1 1 | 1 | DZKP000090 | Spring, Plate | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| DZJC000117 Singper DZJC000117 Singper DZJC000117 Singper DZJC000117 Singper DZJC000117 Singper DZJC000117 Singper DZJC000118 Singler DZJC000119 Singler DZJC000119 Singler DZJC000119 Singler DZJC000119 Singler DZJC000119 Singler DZJC000119 Singler DZJC000119 Singler DZJC000119 Singler DZJC000119 Singler Singler DZJC000119 Singler Sin | • | DZPK00001 | Washer | 1 |
| DZKNO0073 Singper DZKNO0073 Singper DZKNO00073 Singper DZKNO00073 Singper DZKNO00073 Singper DZJKNO00094 Cluich DZJKNO00094 Cluich DZJKNO0048 Cluich DZJKNO0048 Cluich Cluich DZJKNO0048 Cluich Cluich Cluich DZJKNO0048 Cluich | 1 | DZFF000Z13 | Ground Strap | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| DZMO00073 Spring, Coll, Culton DZM000073 Spring, Coll, Culton DZM000086 Drum, Clutch DZM000086 Drum, Clutch DZM000086 Drum, Clutch DZM000081 Slay, Front DZM000081 Caution Label, High Temperature DZM000081 Caution Label, High Temperature DZM000081 Spring, Paper Size DZM000094 Rubber Lea (20) DZEC100410 Spring, Paper Size DZM000074 Rubber Lea (20) DZEC100410 | 1 | 7110000171 | Stopper | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| DZJANO00054 Case, Juliari DZJAN000054 Case, Juliari DZJAN000054 Case, Juliari DZJAN000054 Case, Juliari DZJAN000054 Case, Juliari Case, High Temperature Case, Juliari Case, High Temperature Case, Juliari Case, High Temperature Case, Juliari Case, High Temperature Case, Juliari Ca | 1 | DZNN000073 | Spring, Coll, Ciuren | 1 |
| DZJC000119 Sitat, Front DZJC00119 Sitat, Front DZJC0000119 Sitat, Paper Size DZJC00000119 Sitat, Paper Size DZJC00000119 Sitat, Paper Size DZJC00000119 Sitat, Paper Size DZJC000119 Sitat, Paper Size DZJC00000119 Sitat, Paper Size | 1 | D.7 IMODODE | Case, Clutch | 111111111111111111111111111111111111111 |
| DZHP000148 Geat Assembly, Clutch 1 1 1 1 1 1 1 1 1 | 1. | DZ.IC000119 | Stav Front | 1 |
| DZNK000481 Caution Label, High Temperature DZNK000482 Caution Label, High Temperature DZNK000482 Caution Label, High Temperature DZNK0000091 Sprint, Pager Size DZJK0000091 Sprint, Pager Size DZJK0000004 Rubber Leg (20) DZEC100410 PC Board, SSN 1 1 1 1 1 1 1 1 1 | ŀ | 4 | Goar Assembly Chitch | |
| DZNK000482 Caution Label, High Temperature DZNK001621 Caution Label, High Temperature DZNK001621 Caution Label High Temperature CZNV000034 Spring, Pages (Sze DZNV000034 Rubber Leg (20) DZNC000034 Rubber Leg (20) R | | 1 | Caution abel High Temperature | |
| DZNKO01621 Caution Label, High Temperature Caution Label High Temperature Caution Label High Temperature Caution Cau | | | Caution Label, High Temperature | |
| DZKP000091 Spring, Paper Size 1 1 1 1 1 1 1 1 1 | | ı | Caution Label, High Temperature | |
| Rubber Leg (20) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | Spring, Paper Size | |
| PC Board, SSN 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | Rubber Leg (20) | |
| Plate, Bottom 1 1 1 1 1 1 1 1 1 | | DZEC100410 | PC Board, SSN | |
| A. d. T A | ١. | DZJB000117 | Plate, Bottom | |
| A.1.4. | | DZI F00020E | Goog, F18 | |
| Catholic Catholice | | OZNKODOĐE | Guide. Toner Cartridge | |
| | | | | |

| Model Name | ě | | L | 1 | ١ | | | | l | | | ĺ | | | 100 71 | | | | | | | | | | | | ŀ | | l | l | l | l | ĺ | | Š | l | l | | | l | l | ŀ | | |
|--------------------------|------------|----------------------|---------------|----------|----|----|----|---|----|----------|----------|----|----|----------|-----------|----|------|----------|----------|---|---|----------|----------|---|------------|---|---|------------|-----|-----|------|----|----|---|-------|----|---|-----|---|----------|----------|---------------|----------------|-------------------------------------|
| - T- W | | | H | H | Ŀ | H | | | H | H | H | | + | 1 | | .П | H | H | H | | Н | H | H | Д | | | + | H | | | H | H | | 5 | 2 | H | | | H | | t | | - | Contion |
| Part Number | | Describtion | AUACAMABADABA | 3 | ₹. | Κ. | Ä. | A | \$ | <u>¥</u> | <u> </u> | \$ | ¥. | <u> </u> | NATA V | 5 | AS A | <u> </u> | <u> </u> | | 5 | <u>÷</u> | <u> </u> | _ | A II A ALA | Ē | ₹ | <u>Ş</u> . | S O | AEA | AGAH | ₹. | ¥. | Ì | APAHA | ¥. | ₹ | N N | | <u> </u> | <u>}</u> | × | í | |
| DZJH000043 Spacer 2 | Spacer 2 | | = | 匚 | F | ۲ | E | E | - | E | - | - | F | E | Ε | E | F | = | E | E | F | F | Ε | Ε | F | E | = | - | - | - | - | - | - | - | - | E | - | - | = | Ε | - | 용 | | |
| DZLM000050 Bushing, P6L8 | Bushing, P | PT9 | = | - | - | ۲ | Ξ | Ξ | - | = | - | = | - | = | Ξ | E | F | = | F | Ξ | F | Ξ | = | Ε | Ξ | F | F | Ξ | - | Ξ | - | = | - | F | - | ۲ | Ξ | - | E | Ξ | - | 2 | 2J, 1H | |
| | Clamb, H | amess | E | ۲ | F | F | F | E | F | E | ۲ | E | F | ۲ | E | E | F | - | F | E | F | F | E | E | Ξ | - | Ε | E | Ε | E | Ė | Ξ | Ε | E | F | E | E | - | ÷ | Ε | - | 118 | 18, 58 | |
| Г | Hamess, | Hamess, DC Motor | = | - | F | - | E | E | = | E | F | F | F | = | - | E | Ē | = | ٥ | Ξ | F | - | - | Ε | Ξ | F | - | - | Ξ | Ξ | - | - | Ξ | | F | = | Ξ | - | = | Ξ | - | 18 | | |
| DZFP000699 Harness, SNS | Harness, | SNS | = | ۳ | - | Ξ | Ξ | Ē | - | - | Ε | - | F | Ε | Ξ | E | Ξ | - | Ε | Ε | - | F | - | E | Ξ | E | - | - | Ξ | Ξ | - | = | Ξ | - | = | - | - | - | - | Ξ | - | 1 | 1F, 6H | |
| DZFP000572 Hamess, SNS | Hamess | SNS | = | - | - | _ | - | Ξ | F | E | - | - | = | Ξ | Ξ | Ξ | Ē | = | Ξ | Ξ | F | = | = | Ε | Ε | E | = | = | Ξ | Ξ | = | | Ξ | - | F | - | Ξ | - | = | Ξ | - | <u>수</u> | | |
| DZFP000207 Harness | Harness | Hamess 1, SNS | = | Ε | Ξ | ۲ | = | Ξ | - | Ξ | - | Ξ | = | = | Ξ | Ξ | = | = | - | - | - | Ξ | - | Ξ | Ξ | Ξ | = | = | Ξ | Ξ | - | Ξ | Ξ | - | = | = | Ε | - | = | Ξ | - | # | 4E, 5C | |
| DZFP000753 Hames | | Hamess, Toner Sensor | Ξ | F | - | = | = | Ε | - | E | F | Ξ | F | - | Ξ | Ξ | Ē | | ٥ | E | F | F | - | E | Ξ | - | = | Ξ | - | Ξ | - | = | Ξ | - | = | | Ξ | - | - | Ξ | - | 8 | | |
| | | | - | <u> </u> | L | L | Ĺ | | Т | - | L | L | H | \vdash | L | | H | \vdash | Ľ | | | \vdash | L | L | | L | ┝ | L | | | ┢ | H | | | ┝ | L | | | - | | | Ĕ | 1B, 1C, 1H, | IA, 1B, 1C, 1H, 1J, 2A, 2B, 2E, 2F, |
| | | | | | | | | _ | | - | | _ | _ | | | | | | | | | | | | | _ | | | | _ | | | | | _ | | _ | | | _ | | 돐 | 2K, 3B, 3E, | 2H, 2K, 3B, 3E, 3H, 4D, 4F, 4J, 4I, |
| | | | | | | | | | | | _ | | - | _ | | | | | | | _ | | | _ | | _ | | | | | | - | | | | | | | | _ | | \$ | 5A, 5C, 5J, | 4K, 5A, 5C, 5J, 6B, 6H, 6J, 7A, 7E, |
| XTB3+8J Screw | Screw | | = | - | _ | _ | - | Ξ | = | _ | - | - | = | <u>-</u> | - | - | - | = | - | Ξ | = | Ξ | Ξ | Ξ | - | - | Ξ | = | _ | Ξ | ÷ | = | Ξ | Ξ | Ξ | Ξ | Ξ | Ξ | - | - | - | 7 | 7F, 8B, 8E, 8H | |
| XYN3+F8 Screw | Screw | | Ē | ۲ | Ξ | Ξ | Ξ | Ξ | - | E | E | F | F | 1 | - | ш | F | - | ۳ | Ε | F | F | | Ε | 11 | E | F | Ξ | - | Ξ | - | - | Ξ | ÷ | E | Ξ | Ξ | - | - | Ξ | - | 4 | | |
| XTB3+10J Screw | Screw | | Ξ | - | - | = | Ξ | - | - | - | = | - | F | - | E | Ε | F | = | - | Ε | = | Ε | _ | Ε | Ξ | F | - | - | Ξ | Ξ | - | - | Ξ | Ξ | Ξ | Ξ | Ξ | - | - | Ξ | - | 읃 | | |
| XUC6 E-Ring | E-Ring | | Ę | ۳ | - | - | Ξ | Ξ | - | = | = | Ξ | F | F | - | Ε | Ē | 1 | ۳ | F | - | Ξ | = | E | - | - | F | - | - | Ξ | - | - | Ξ | - | = | Ξ | Ξ | - | = | Ε | - | 5 | 4C, 4D, 5F | |
| XTW3+8SFC Screw | Screw | | Ē | ۲ | = | F | F | E | F | Ė | Ė | F | É | - | Ε | E | F | Ε | - | Ε | - | Ë | F | E | F | E | - | Ξ | Ŀ | Ξ | F | E | E | Ŀ | F | E | Ξ | ÷ | - | E | Ė | VP | | |



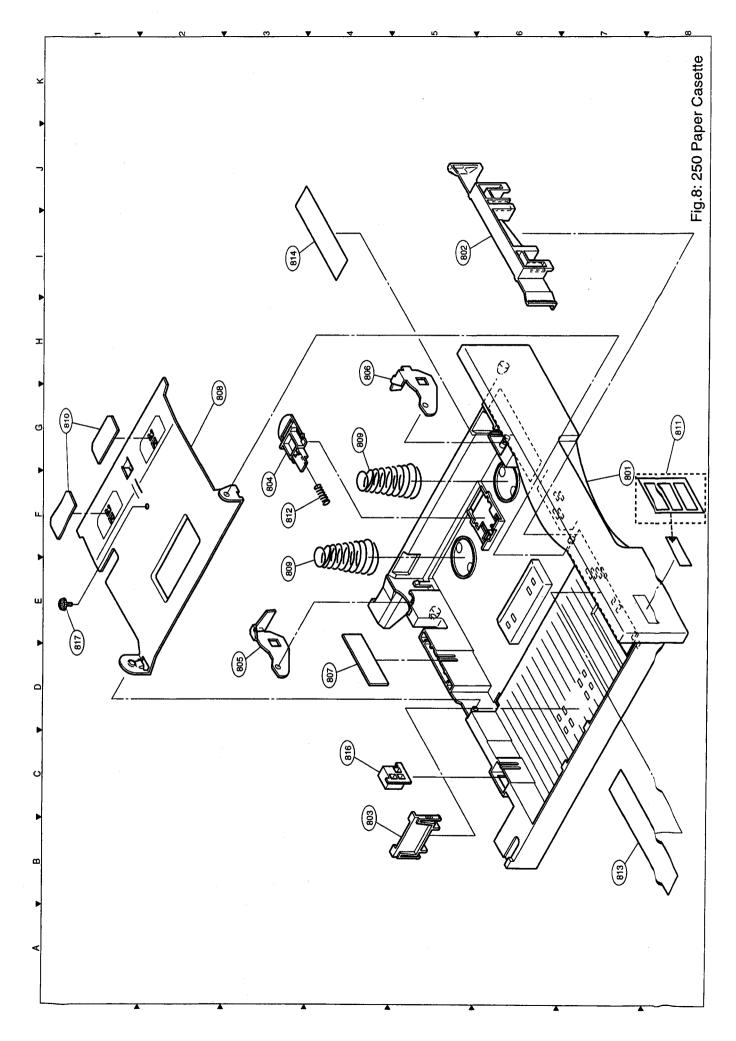
7.8 250 Feeder Unit

| | | | | | | T: | | | | | Location |
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| Ref. Safety | | a de la constante de la consta | TARREST AND ADDRESS. | 3 | | | į | | | | |
| No. Mark | ran number | Describaci | | TAUANASANA | AMAINA PACANANA | W . | V1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1. | AUACABABAG | ALAMALAMALAL | A WANTE | |
| • | - 1 | Cassette Hail 2, Hight | | - | | | | | | | 1 1 50 |
| . 707 | - 1 | Stay 2, Hear | | - | | | | | | | 1 8A |
| ٠ | UZJE000120 | Cover, Blind | 1 1 1 1 1 1 | | | | | | | | 1 1 6H |
| - 404 | UZJAU00175 | Bracket, Bushing, Front | -+ | | | | | | | | 1 1 3G |
| 9 | - 1 | Bracket, Bushing, Hear | | | | | | | | | 1 1 30 |
| - 90. | 1 | Roller, Intermediate | | 11111 | 1 1 1 1 1 1 1 | 11 11 11 11 11 11 1 | | 111111 | 111111111 | | 1 1 1 2F |
| | DZI_M000052 | P6L5, Front (Black) | 1 1 1 1 1 1 1 1 1 | 1 1 1 1 | 111111 | 1 1 1 1 1 1 1 | 1111111 | 111111 | 1111111 | 11111111 | 1 1 1K |
| | | P6L5, Rear (White) | 11 11 11 11 11 11 1 | 1 1 1 1 1 | 1 1 1 1 | 1 1 1 1 | 1 1 1 1 1 1 1 1 1 | 1 1 1 1 | 11111111 | 1 1 1 1 1 | 11110 |
| 502 | ı | Gear Drive R28 | 1 1 1 1 1 1 1 | 1 1 1 1 | 1 1 1 | - | 1 1 1 1 1 | | 1 1 1 1 1 | | 1 1 10 |
| 710 | DZ.1000004 | latch Right | | - | - | - | - | - | - | - | 1 1 10 2H |
| | 1 | Court Conor | | | | | | | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 12,00 |
| - | 1 | COVER, SCIENCE | | | - [, - , - , | | | | | | 1 2 |
| . 71/ | - 1 | Gear, E34B60 | | | | | | | 1 1 1 | | 11120 |
| ا. | - 1 | Gear, E17D32 | 1 1 1 1 1 1 | | - | - | | 1 1 1 | 1 1 1 1 1 1 | 111111 | 1 1 38 |
| 714 | | Gear, D26C41 | 111111 | - - - | - - - | - - - | | - | | | 1 1 3B |
| 715 | | Gear, C21F34 | 1 1 1 1 1 1 | - | - | | | - | | 1 1 1 1 | 1 1 3A |
| 716 | ı | Cover CST PC Board | 1 1 1 1 1 1 | 1 1 1 | | 1 1 1 1 | 1 1 1 1 | 1 1 1 1 | 111111 | 111111 | 1 1 10 |
| | ı | Cover Boller | 1 1 1 1 1 1 | - | - | - | | - | - | - | 1 1 1 |
| 7.10 | | Bracket Frank | | | | | | | | | 200 |
| 240 | 1 | Drodot Door | | | | | | | | | 5 |
| | 1 | Diamei, neal | | | - • | | | - ; | - · | | 2 |
| 120 | - 1 | Cover, Cassette, Lett | | | | | | | | | 1,18G |
| · | - 1 | Cover, Cassette, Rear | 1 1 1 1 1 | - | - | 1 1 1 | - | 1 1 1 | 1 1 1 | 11111 | 1 1 4B |
| 722 | | Cover, Jam Access | 1 1 1 1 1 1 1 1 1 | - - - - | - - - - | | | 11 1 1 1 1 | 1 1 1 1 1 1 | 1 1 1 1 1 1 | 1 1 2K |
| 723 | | Bracket, Magnet | 1 1 1 1 1 1 1 1 1 1 1 1 | 11111 | 1 1 1 1 1 1 | 111111 | 111111 | 1 | | - | |
| 724 | 1 | Magnet | 1 1 1 1 1 1 | | - | - - - | - | - | - | - | 1 1 21.3K |
| 725 | | Spring Pinch Boller | 1 1 1 1 1 1 | - | - | - | 1 1 1 | - | 1 1 1 1 1 | - | |
| ŀ | DZ IF000218 | Guide Paper | | - | | | | | | | 1 1 20 |
| 1 | D.ZED00010 | Comes, caper | | | | | | | | - - | 5 - 1 |
| 100 | | OND Design Option | | | - • | | | | - i, - i, - i, - i, | | 1 4E, 5A |
| | - 1 | PC DOMIG, CS12 | | | - - | - | | | 1 1 1 1 | | 1 1 68 |
| 1 | - 1 | Hamess 4, CS1 | 11111 | - | - - - | - | - | - | 1111111 | 11111 | 1 1 5A |
| 730 | DZHP000155 | Magnet, Catch | 11111 | | 1 1 1 1 | 1 1 1 | | 1 1 1 1 1 | 1 1 1 1 1 1 1 | 111111 | 1 1 58 |
| \cdot | - 1 | Sensor, No Paper | 1 1 1 1 1 | 1 1 1 | | - - - - | 111111 | 111111 | 1 1 1 1 1 1 1 | 111111 | 1 1 2E, 3E |
| | | Base Frame | 11111111111 | 1 1 1 | 11111 | 1 1 1 1 | 1 1 1 1 1 | 1 1 1 | 1 1 1 1 | 1 1 1 1 1 1 1 | 1 1 1 6D |
| . 34 | | Cassette Rail, Left | 1 1 1 1 1 1 1 1 | 1 1 1 1 | 1111111 | | 1 1 1 1 1 1 1 1 1 | 1111 | 1 1 1 1 1 | 1 | 1 1 7 |
| - 35 | | Rubber Leg | 11 11 11 11 11 11 11 1 | 1 1 1 | 1 1 1 1 1 | 1111111 | 1111111 | 1 1 1 1 | - - - | - | 1 1 5 |
| ŀ | | Actuator, No Paper | 1 1 1 1 1 1 | | 1 1 1 | - | | | - | 1 1 1 | 1 1 4F |
| 737 | | Boller Pinch | 1 1 1 1 1 | - | - | 7 | 1 1 1 1 | - | - | | 1 4 9 1 |
| 1 | | Bushing Dol 10 Dogs (Mihito) | | • | | | | | - v | - - - | 200 |
| , 000 | | busillily, rol. 10, near (wille) | - | | - (· | | | | | | 1 1 2 1 |
| • | - 1 | Bushing, Pacis, Front (Black) | | | | | | | | | 1 1 3G |
| 740 | - 1 | Gear, E34 | 11111111111 | 1 1 1 1 | 1 1 1 1 1 | 1 1 1 1 1 | 111111111 | 1 1 1 1 1 | - | | 1 1 30 |
| · | | Case, Clutch | 1 1 1 1 1 1 1 1 1 | 1 1 1 1 | 1 1 1 1 1 1 | 1 1 1 1 1 1 1 | 1111111 | 111111 | 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 | 1 1 3D |
| 742 - | | Drum, Clutch | 1 1 1 1 1 1 | 11111 | 1 1 1 1 1 | 1 1 1 1 1 | - | - | 1 1 1 1 1 | | 1 1 3E |
| | ı | Spring, Coil, Clutch | 1 1 1 1 1 1 1 | | 1 1 1 | | - | - | - | - | 1 1 30 |
| 744 | 1 | Solonoid Daner Food | | | | | | | | 1 | 000 |
| 1 | 02000000 | Colorado, 1 abel 1 est | | | - (- - - - - - - - - | | | | | | ာ - |
| 24.5 | П | Silan, reed noiler | | | | | | | | 1 1 1 1 | 1 1 3G |
| /40 | - 1 | Holler, Paper Feed | | - | | - - - | | 1111111 | 1 1 1 1 1 1 | 1111111 | 1 1 3F |
| , | - 1 | Spring, Paper Size | 1111111 | - - - | - - - - | - - - - | | 1 1 1 | 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 | 1 1 7 A |
| 748 - | DZEC100410 | PC Board, SSN (Paper Size) | 1111111 | | 1 1 1 | 1111 | 1111111 | | | - | 1 1 7A |
| - 092 | DZFP000344 | Hamess 3, SSN | 1111111111 | | | | - | 1 1 1 | | | 1 1 7B |
| ŀ | DZJN000034 | Rubber Lea | 1 1 1 1 1 1 | + + + | | | - - | - | | | 1 90 |
| ŀ | DZFP000218 | Hamess 3 CST | | - | - | - | - | | | | 200 |
| 217 | DZ.IKO0009 | Clamp Hamess | | | | | | | | | 20 CO |
| | | 000 | | | | | | | - | - | 70°, do, tv |
| | | Cassette, Paper, 250 | | | | | | | | | |
| 815 | DZHP000358 | (Ref. No. 811 is not included) | 1111111111 | 1 1 1 1 | 1 1 1 1 1 1 1 | 1 1 1 1 1 1 | 1 1 1 1 1 1 1 | ======================================= | | 1 | |
| | | | | | | | | | | | 1D, 1E |
| | O COL | | , | | - | | | | | | |
| B | X B3+BJ | Screw | 1 1 1 1 1 | - | 1 1 1 1 1 | | - - - | 111111 | 1 1 1 1 1 | | 1 1 6A, 6F, 6G, 7D, 8A, 8B |
| | XYN3+F8 | Screw | 1 1 1 1 1 1 1 | 11111 | 1 1 1 1 1 1 | 1111 | | 1 | 1 1 1 1 1 | 1 1 1 1 1 1 | |
| , | XUX | E-Ring | 1 1 1 1 1 1 | 1 1 1 1 | 1111111 | 11111 | - | | 1 1 1 1 1 1 | 11111 | 1 1 1K, 2B, 2C, 2D, 3A |
| • | xnce | E-Ring | 111111 | | 1 1 1 1 | 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 | - | 1 1 1 1 1 | | |
| ٠ | DZPB000007 | Screw | 1 1 1 1 1 1 | - | | - | - | - | | | 1 1 1 0 0 |
| ŀ | DZPROOO14 | Spraw | | | | | | | | | 1 + 4, 0C |
| ļ | 100000 | | | | | | | | | | - |
| | | | , , | | | | | | | | 1 1 58 |



7.9 250 Paper Cassette

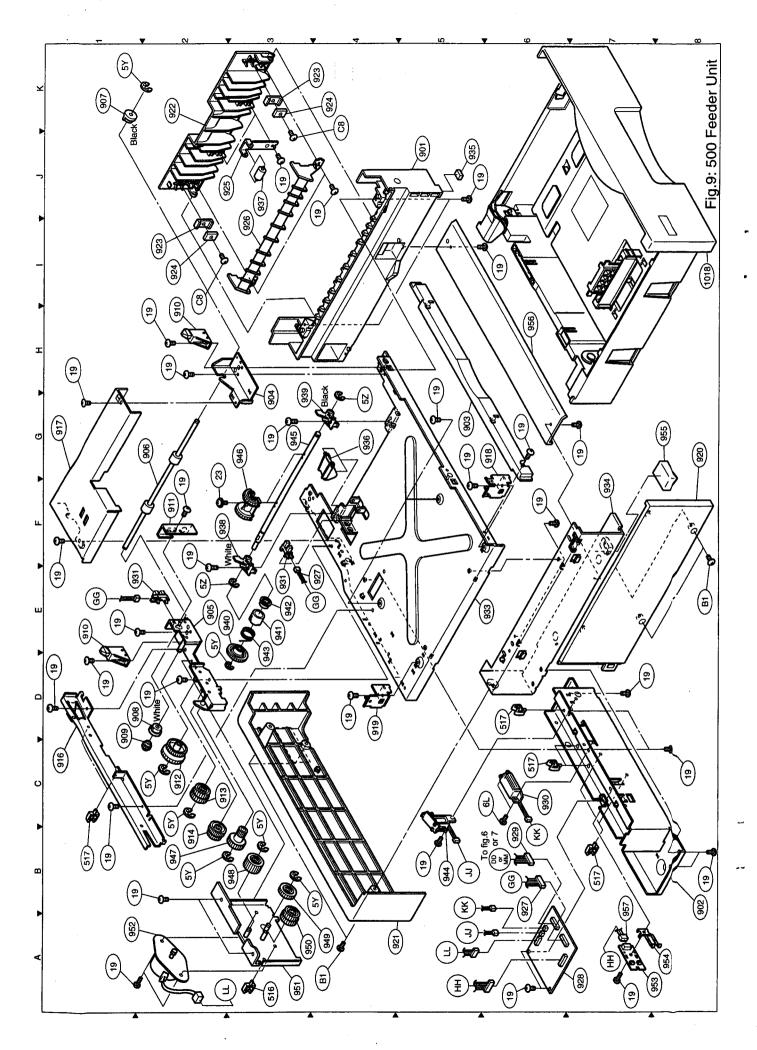
| ı | SAL del blanch | | L | | | | | | | | ľ | | | | | | | ŀ | | ŀ | l | | | | ľ | ľ | l | I | l | | | | |
|-------------|-----------------|----------------------|------|-----------|---|---|---|-----|-----|-----|--------|----------------|-----|-----|-----|--------------|-----|---|--------------|----------|---|-----|-------|---|---------------|----|----------|---------|--------|----------|----------|----------|---|
| ĕ | Model Name | | _ | | | | | | | | 2 | - 482 - 483 | | | | | | | | _ | | | | | CF-895 | × | | | | | | | |
| Ref. Safety | Dard Minmber | Contractor | - Y | 747474747 | | ٤ | • | 7 | 7.4 | | | 7 | 7 | | - | ۲ | 7.7 | 1 | | | ř | | - | | _ | | F | 1 | | | | Location | |
| No. Mark | al t ivaliliado | nesculpanu | ₹ | } | | 7 | τ | | 7 | 2 | ۲ ۲ | <u>{</u> | 5 | ¥ . | 1 | 5 | 2 | - | _ | <u> </u> | 2 | N O | S A T | 4 | AMA | ¥. | <u> </u> | 1 | EE YOY | <u> </u> | × | | |
| 70 | DZJF000194 | Base Frame, Cassette | | 1 | Ε | - | Ε | - | - | - | E | Ξ | - | - | - | Ξ | - | - | - | 7 | - | E | - | - | - | Ē | - | - | Ē | - | 75 | | |
| ZQ | DZJF000159 | Guide, Paper Width | - | 1 | Ξ | - | Ē | = | = | - | Ē | Ε | - | - | = | Ξ | Ξ | Ε | - | = | Ξ | Ξ | - | - | - | F | - | F | E | - | 21 | | |
| 20 | DZJF000160 | Guide, Paper Length | 1 | 1 1 | Ε | - | Ē | - | - | - | Ē | Ξ | - | - | - | Ξ | Ξ | Ξ | - | Ē | Ξ | Ε | - | - | - | - | - | F | - | - | 4B | | I |
| 2 | DZJM000091 | Lock, Pressure Plate | 11 | - | 囯 | H | Ε | - | E | 1 | Ē | - | - | 1 | - | - | Ξ | Ξ | - | Ξ | Ξ | Ε | Ξ | - | - | - | - | - | E | E | is is | | |
| 2 | DZJC000029 | Clip, Paper, Right | 1 | 1 1 | Ξ | - | Ė | 111 | 1 | - | 11 | H | 111 | - | - | Ξ | Ξ | Ξ | - | Ξ | Ξ | Ξ | - | - | - | - | = | - | - | Ξ | 30 | | |
| 2 | DZJC000080 | Clip, Paper, Left | | - | Ε | 1 | Ε | 111 | 11 | 111 | Ш | Ξ | 111 | 1 | - | - | Ξ | Ξ | - | Ξ | Ξ | Ε | Ξ | 1 | E | Ξ | = | - | - | E | 44 | | |
| 20 | DZJD000003 | Plate, Lock | 1.1 | 1 1 | Ε | = | Ė | F | - | - | Ξ | Ξ | = | - | - | Ξ | Ξ | Ξ | - | Ξ | Ξ | Ε | = | - | - | Ē | Ξ | - | Ē | Ē | 4D | | |
| 20 | ı | Plate, Pressure | - 1 | 1 | Ξ | + | | - | - | 1 | Ē | Ξ | - | + | Ē | = | - | Ξ | - | = | - | Ξ | Ξ | - | E | Ξ | = | - | - | Ξ | 26 | | |
| 2 | | | | - | - | - | Ē | 1 1 | 1 | - | Ξ | - | 1 | 1 1 | 1 | - | - | F | 1 1 1 | E | - | - | - | 1 | - | Ξ | = | - - | = | E | 3E. 4G | | |
| 2 | | | 1 | 1 1 | Ξ | 1 | I | 111 | 1 1 | 1 1 | 1 | H | 1 | 1 1 | 111 | = | - | Ξ | - | - | Ξ | Ε | - | - | - | F | - | - | - | = | 16 | | |
| | DZNK000298 | : 1 | - | + | | | | 111 | П | 111 | 111 | Ш | 111 | 111 | 111 | 1 | E | Ξ | - | Ξ | Ξ | Ξ | Ξ | 1 | - | - | = | - | Ē | Ξ | 86 | | |
| | DZKN000084 | Spring, Lock | . 11 | 1 | - | - | - | 1 | - | 1 | 1 | = | 1 1 | - | 1 1 | - | 1 | - | 1 1 | - | - | Ε | - | 1 | 1 | Ē | - | - | - | - | 3F | | |
| | DZNK000483 | Instruction Label 3 | - 1 | 1 1 | Ξ | - | Ē | 1 | 1 | 1 | 1 | Ε | 1 | + | 1 1 | - - | = | Ξ | - | Ξ | Ξ | Ε | - | - | - | Ξ | - | - | - | Ξ | 78 | | |
| 2 | DZNK000300 | Instruction Label 2 | 1 | 1 1 | - | 1 | E | 1 | - | - | = | E | 1 | - | - | E | - | Ξ | - | - | - | Ξ | - | 1 | - | - | - | - | - | - | 3 | | |
| ă | DZJF000225 | Paper Size Selector | 1 | 1 | E | F | Ξ | - | - | - | - | Ξ | - | - | - | - | Ē | Ξ | = | E | Ξ | Ε | Ξ | - | = | E | = | - | - | - | 40 | | |
| 2 | DZPA00004 | Some Lowing | - | + | Ĺ | | ĺ | | | ٠ | ŀ | ۲ | · | ŀ | | - | • | | , | • | | ŀ | ļ | ļ | | | | , | • | | - | | |



7.10 500 Feeder Unit

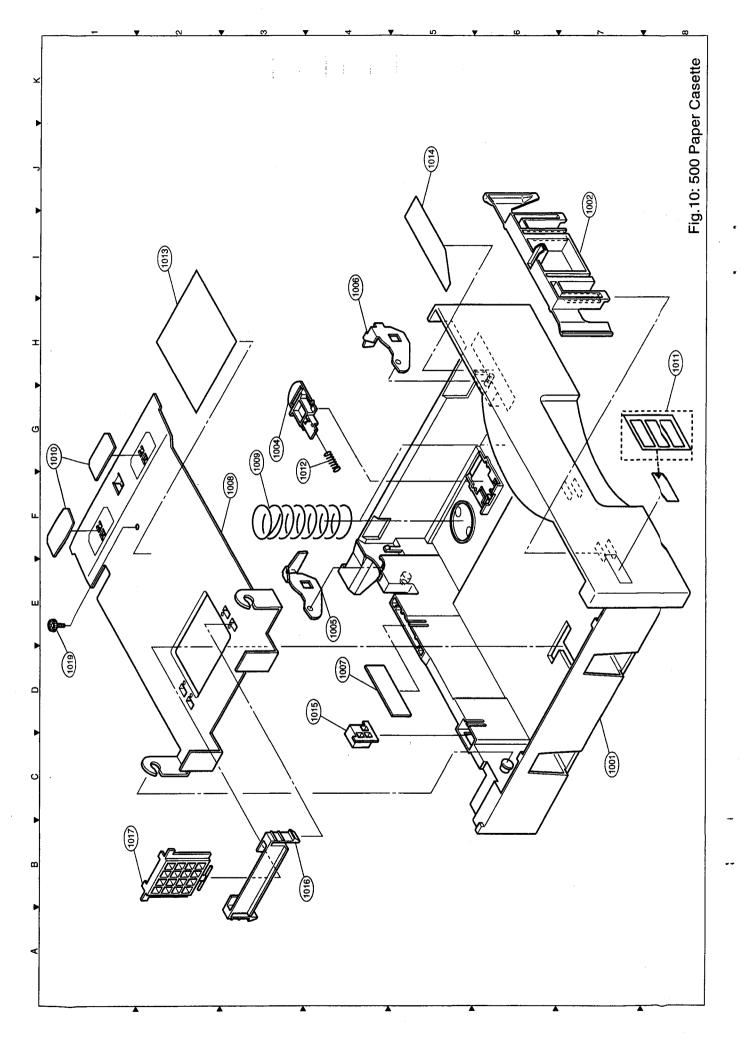
| No. Nark No. Mark No. Mark 9021 - D 9021 - D 903 - D 905 - D 906 - D 907 - D 907 - D 908 - D 909 - D 909 - D 900 - D | Part Number DZJA000235 DZJC000121 DZJE000120 DZJA000175 | Description Cassette Rail, Right 500 Stay, Rear 500 Cover, Blind Bracket, Bushing, Front Bracket, Bushing, Front Bracket, Bushing, Hear | AUACAAABADAEAF | | 4GAHAJAK | ALAMANAP. | APAGARASAT | AVAWEEYCYG | GYJYMYTYV | YWYXAU | ACABAEAGAH | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | AHATAVAWE | | |
|--|---|---|---|---|----------------------------|---------------------------------------|-------------------------------|-------------------|------------------|------------------------|---|---------------------------------------|------------------|---|----------------------|
| | | Cassette Rail, Right 500 Stay, Rear 500 Cover, Blind Bracket, Bushing, Front Bracket, Bushing, Rear | | | | | | | | - - - - | - · | | | | 4.16.1 |
| | ПП | Stay, Rear 500 Cover, Blind Bracket, Bushing, Front Bracket, Bushing, Rear | | | | | | | | • | | 1-1-1- | 1 1 1 | - - - | 3 |
| | ПТ | Cover, Blind Bracket, Bushing, Front Bracket, Bushing, Rear | | <u>-</u> | | | | | | = | ======================================= | | | | 1 8A |
| | П | Bracket, Bushing, Front Bracket, Bushing, Rear | - - - | | 1 1 | | - | | - | 1 1 1 | 1 1 | 1 1 1 | | ======================================= | 1 56 |
| | Ī | Bracket. Bushing, Rear | | - | | 1111 | | | - - - | - | - - - | - | - | 1 1 1 | 1 3G |
| | | | ======================================= | | 1111 | - - - | | - | 1 1 1 | | 1-1- | - - - | - - - | 1 1 1 | 1 2E |
| | | Rotter, Intermediate | | 1-1- | F F F | - - - | 1 - | 1 1 1 | 1111 | 1 1 | 1-1- | | - | 1 1 1 | 1 26 |
| | | Bushing, Conductive, P6L5, Front (Black) | 1 | | - | - - | | | | - - - | - - - | | - - - | - - - | - * |
| | | Bushing, P6L5, Rear (White) | 1 1 1 | 1 1 1 | 1 1 1 1 | 1 1 1 | 1 1 | 1 1 1 | 1 1 | 1 1 1 | 1 1 1 | 1 1 1 | 1 1 1 1 | 1 1 1 | 1 1D |
| - | | Gear, Drive, B28 | 1111 | 1111 | 1 1 1 1 | 1111 | 11111 | 1 1 1 | | 1 1 1 1 | 1 1 1 1 | 11 11 11 1 | 11111 | 1 1 1 1 | |
| | | Latch, Right | 1 1 1 1 | 1 1 1 | 1 1 1 | 1 1111 | 11111 | 1 1 1 1 1 | 1111 | 1 1 1 | 11111 | 1 1 1 | 1 1 1 1 | 1111 | 1 1 1E, 2H |
| 1 | DZJE000073 | Cover, Sensor | - - - | - | - - - | - - - | | - - - | - | - - - - | - - - - | - - - - | - - - | - - | 1 2F |
| | - 1 | Gear, E34B60 | - | - | - | - | - | - | - | | - | - | - | - | 1 2C |
| • | - 1 | Gear, E17D32 | - | - | | - | - | - | - | - | - | - | | - | 1 2C |
| - | 7 | Gear, D26C41 | - | - | - | - | | - | | | | - | - | | 1 28 |
| - | 7 | Cover, CS1 PC Board | | | | | | | | | | | | |) - - |
| - | - 1 | Cover, Holler | | - | | | | | | | | | | | 5.0 |
| ======================================= | - 1 | Bracket, Front | | - | | - | | | | | | | | | 1 6G |
| • | Т | Bracket, Rear | - | - | | - | - | - | - | - | | | - | - | 1 4D |
| • | Т | Cover, Cassette, Left 500 | | | | | | | | | | | | | 1 8G |
| - | Т | | | | | | | | | | | | | | 1 4A |
| - | Т | SSS | | | | - | - (| | | | | | | | ~ |
| - | 7 | Bracket, Magnet | | | -\ -\ -\ | | | | - | | | | | | 1 21, 4K |
| - | - 1 | Magnet | | | | | | | | | | | | | 1 21, 4K |
| • | DZKP00084 | Spring, Pinch Holler | | | | - | | | | | | | - | | 1 23 |
| - | 1 | Guide, Paper | | | | | | - \ - \ - \ | | | | | | | 1 3 |
| , | - 1 | Hamess, CS13 & SNS | | | | | | | | - | - | 1 | | - | 1 4E, 6A |
| - | DZECTIONTT | PC Board, CS13 | - v - v - v | | | | - [- - - - - - | | | | | | | | 1 /A |
| | 1 | Magnet Catch | | - | | - | | - - | - | | | | | | 29 |
| | Т | Sensor No Paper | - | - | - | - | - | | | | | | | | 1 15 25 |
| - | Т | Base Frame | | - | - | - | | | | - | | | | | 1 65 |
| | 1 | Cassette Rail, Left | | - | - | 1 1 1 | | - - - | - | - | - | 1 | - | - | 1 75 |
| <u> </u> | ı | Rubber Lea | | = = = | - | - | - | - | 1 1 | - | - | 1 1 1 | 1 | 1 1 1 | 153 |
| ٠ | DZKK000020 | Actuator, No Paper | 1 1 1 | - - | 1 1 1 | 1 1 1 | 1 1 | 1 1 1 | 1 1 1 1 | - - - | 1 1 1 | 1 1 1 | 1 1 1 1 | 1 - 1 | 1 46 |
| | | Roffer, Pinch | 1 1 1 | ======================================= | 1 1 1 1 | 1111 | 111 | 1111 | 1 1 1 1 1 | - - - | 11111 | 1 1 1 1 | 1 1 1 1 1 | 11111 | 130 |
| • | DZLM000042 | Bushing, P8L18, Rear (White) | 1 1 1 | 1 | - - - | 1 1 1 | - - - | - - - | - - | 1 1 1 | 11111 | 111111 | 1 1 1 1 | 11111 | 1 2F |
| | DZLM000051 | Bushing, P8L18, Front (Black) | - - | - - - | | - - | - - - | - - - - | - - - - | - - | - - - | + | | - - - | 1 3G |
| 7 | | Gear, E34 | - | - - - | - - - | | - - - | - - - | = | - - - | - - - | 1 1 1 | - | 1 | 1 2E |
| 1 | - | Case, Clutch | | - | | - | - | | | - | - | - - - - | - - - | - - - | 1 3E |
| - | DZJM000086 | Drum, Clutch | | | | | | | | - | - | - | | - - - | 1 3E |
| • | 1 | Spring, Colt, Ciutch | | | 1 1 1 | - | | | | - | | | | - | 1 30 |
| - | | Solenoid, Paper Feed | | - | 1 | - | | - | | - | | - - - - | - - - | - - - | 1 58 |
| • | - 1 | Shaft, Feed Roller | - - - | - | - | - | -[- - | - | - | - - - | - - - | - - | - - - | 1 1 4 | 1 3G |
| - " | Т | Roller, Paper Feed | | - | - | - | | - | - | - | - - - | - - - | - - - - | - - - | 1 3G |
| • | Т | Gear, C21E28 | | - | - | - | - | - | - | - - - | - - - - | - - - | - - - | - - - | 1 2B |
| • | DZLF00036 | Gear, E25 | - | = | - | - | - | - - - | - - - | - - - - | - - | - - - | 1 1 | - - - | 1 3B |
| 1 | - 1 | Gear, B20B42 | | | | | | | | | | | | - | 1 4A |
| ٠ | - | Gear, D4CEZ/ | - , | - , | - - - - - - | - - - - - - - - - - | - [· | - , | | | | | 1 | | 1 3A |
| | _ | Motor Dogg Egg | - - | - , - , | - ; - ; - ; | | - [• - [• | | | | | | | | 1 3A |
| | _ | PC Board SSN (Paner Size) | | | | | | - | | | | | - · | - · - · - · | - IA |
| ٠ | 1 | Spring, Paper Size | | - | | | | | - | | | | | | 1 194 |
| <u> </u> | Г | Rubber Lea | - | - | - | - | - | - | - | - | | | - | | 200 |
| | DZJB000044 | | - - - | - | - | - | - | - | 1 | | - | | | | 1 0H |
| Ĭ | | Hamess, CST3 | - - - | - | - - | | - - | | 1 1 1 | - | - | - | - | - | 1 7A |
| - | | Clamp, Harness | - - - | F F | + | 1 1 1 | 1 | 1 1 1 | 1 1 1 | 1 1 1 | 1 1 | | | <u>-</u> | 1 1B, 3A, 6C, 6D, 7B |
| | DAUDOOOGO | 4 | - | | , | | | _ | _ | _ | | | | | |
| † | DZHPUUUSDS | (Het. No. 1011 is not included) | 1 | = | - | - | - | | | - - - | | - | - | - - - | 1 81 |
| | | | | | | | | | | | | | | | 2F. 2F |
| <u>^</u> | XTB3+8J | Screw | 1 1 1 | = | 1 1 1 | - | - | - | 1 1 1 1 | - | - | - | - | - | - |
| - | Γ | Screw | 1 | - | 1 | - | - | 1 1 1 | 1 1 1 | - | - | - | - | ┿ | 1 200 |
| • | Γ | E-Rina | - | - | - | - | - | - | - | - | | | | - | 1 1K 9B 9C 9E 9B AB |
| Î | 1 | E-Ring | - | - | - | - | - | - | - | - | | | | | 1 25 46 |
| <u>.</u> | | Screw | - | 1 | 1 | - | - | - | - | - | | - | - | | 1 14 00 |

| UF-895 UF-895 UF-895 UF-895 UF-895 UF-895 UF-895 UF-895 | AFAGAHAJAKALAMANAPAGARASATAYAWEEYGYGYJYMYTYYYWYXAUAGABAGAHAKALA |
|--|---|
| DE AFAGAHAJAKALAWANAP | UF AUACAAARADAEAFAGAHAJAKALAMANAP 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| OF AFAGAHAJAKALAWANAP | UF AUACAAARADAEAFAGAHAJAKALAMANAP 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| | Description AUACAABB |

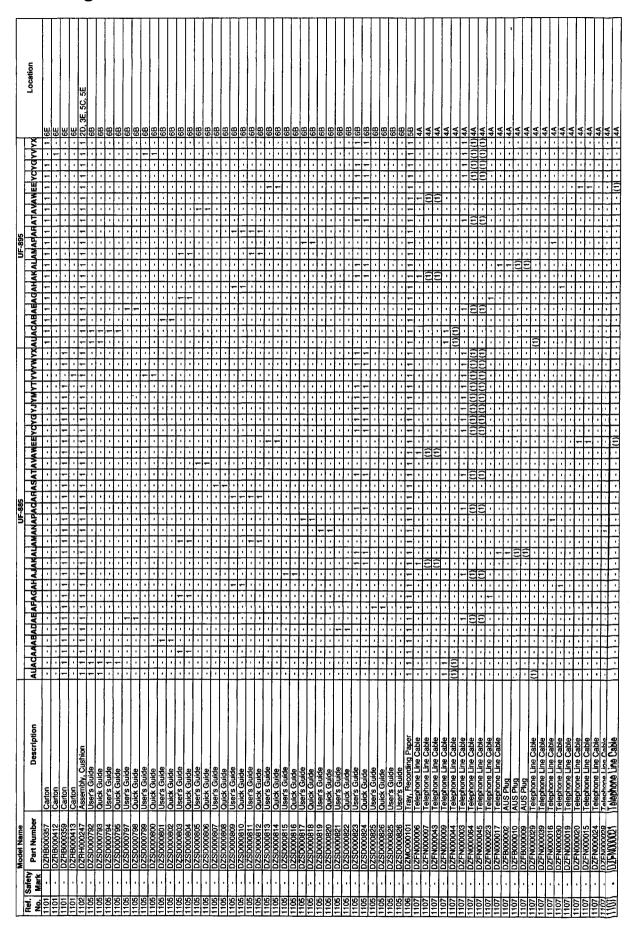


7.11 500 Paper Cassette

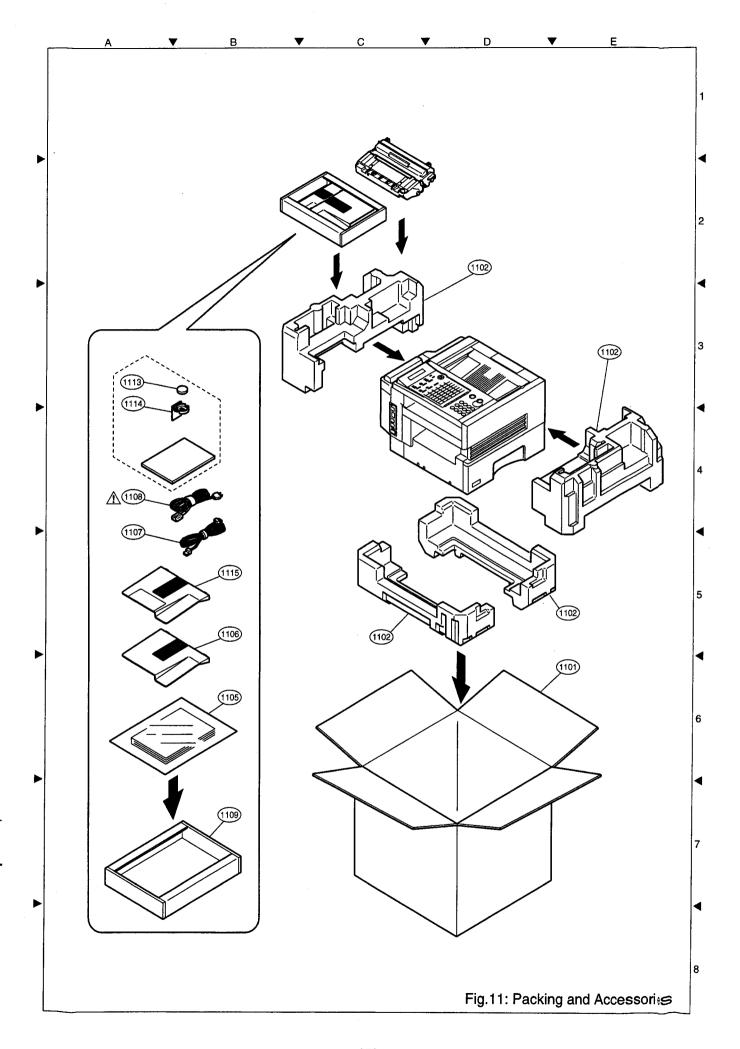
| Model Name | ٩ | | | | | | | | | | | | | | | | | | | | | | |
|-------------|----------|--------------------------|----------------|----------|---|--------|---|--------|----------|--------|---|--------------|---|--------------|------------------|---|--------------|-----------------------|-------|----------|----------|-------------|----------|
| 2 | \vdash | | | | | | | UF-885 | 385 | | | | , | | | | | UF-895 | 55 | | | | |
| Part Number | | Description | AUACAAABACAEAR | ABADA | • | GAHAJA | AKALAM | ANAPA | CAHAS | SATAVA | AEELY | qvava | YMYTHY | XX MAX | AUAQ | ABABA | GAHAK | 13 | APARA | LAVAW | EEYCY | GYVYX | Location |
| DZJF000232 | ╒ | Base Frame, Cassette | - | - | - | - | - | - | - | ŀ | - | - | ļ | ŀ | • | - - | ŀ | 1 | - | - | | | |
| DZJF000228 | ⊬ | Guide Paper Wirth | - | | - | | • | | | • | 1 | - | | | | | | - | | = | - | 11170 | |
| DZ IMPODODA | Ŧ | Look Descents Diets | - - | - | | | - | | | = | - | | = | - | 111 | 111 | - | = | Ξ | = | - - | 1117 | |
| 5000 | 4 | John Liessone Figure | | | = | 1 | 1111 | 111 | - | = | ======================================= | = | - | = | - | 1111 | 1111 | - | - | - | - | 7 | |
| 020000/9 | -+ | Clip, Paper, Right | = | <u>-</u> | 1 | - | 1 1 1 | 1 | 1-1-1 | - | - | Ξ | - | - | - | - | - | - | E | | - | - | |
| DZJC000080 | = | Clip, Paper, Left | - - - | = | 1 | - | - | - | - | - | - | - | - | - | | - | • | | | • | - - | # ; - , | |
| DZJD000003 | = | Plate, Lock | - | - | - | - | - | - | - | - | | F | | | - | - - | - | - - - - - | 1 | | | 4 | - |
| DZJF000231 | ۳ | Plate Preserve | | | | | ŀ | | | | - | - | - | | = | | | - | - | = | - | 11140 | |
| I. | ۳ | Coring | | | | - | 1 | | <u>-</u> | = | <u>-</u> | - - | | - | 1 | 111 | - | = | - | <u>-</u> | <u>-</u> | - | |
| 2000 | 4 | Similar Similar | | | | = | = | - | | - | - | - | <u>-</u> | - | - | 1 1 1 | 111 | - | - | = | - | 1 30 | |
| DZUNUNUS | 7 | Pad, Pressure Plate | 1111 | Ξ | ======================================= | = | ======================================= | - | | 1 | 1 | - | - | - | - | - | - | - | - | ŀ | - | • | |
| DZNK000298 | _ | Label, Paper Size | - | - | - | • | - | - | - | • | | | | | | - - | - | - | | | - | 2 | |
| DZKN000084 | 1 | Spring Lock | - | | | | • | 1 | | | | | | - - | | | - | - | = | Ξ | - | 1 1 8H | |
| DZNKOOOARA | т | Instruction Label 3 | • | | | - · | -1. | - | - - | 1 | | | - - - | - | - | = | - | 111 | 1 | - | - | 1 36 | |
| 3 | Т | TOTAL PROPERTY | | | | - | - | ר ו | | - | - | - | ======================================= | - | - | ======================================= | - | - | - | 111 | 1111 | 11 1 2 | |
| DZINKWOOD | 4 | Instruction Label 2 | <u>-</u> | = | ======================================= | Ξ | = | - | - | 141 | - | Ē | - | | - | - | - | - | - | - | | , | |
| DZJF000225 | _ | Paper Size Selector | 1 1 1 | E | - | - | - | - | - | - | - | - | | • | | | • • | | | | - | 3 | |
| DZJF000229 | 2 | Guide A. End | - | - | - | ĺ | - | - | - | | | • | | | - - - - | | | | | | | 1 40 | |
| DZJF000230 | ۲ | Guide B. End | - | - | - | | | | | | - [• | - | - | | - | | - | | | = | - | 1 1 38 | |
| 2002 | ۳ | DZPA000024 Screw Locking | | | | | 1 | | | | | = | | | - | - | - | - | - | 1111 | 1 | 1 18 | |
| | 4 | CION, LUCAIIA | - | = | = | = | = | = | _ | = | - | - | - | - | - | - | - | - | - | | • | , | |



7.12 Packing



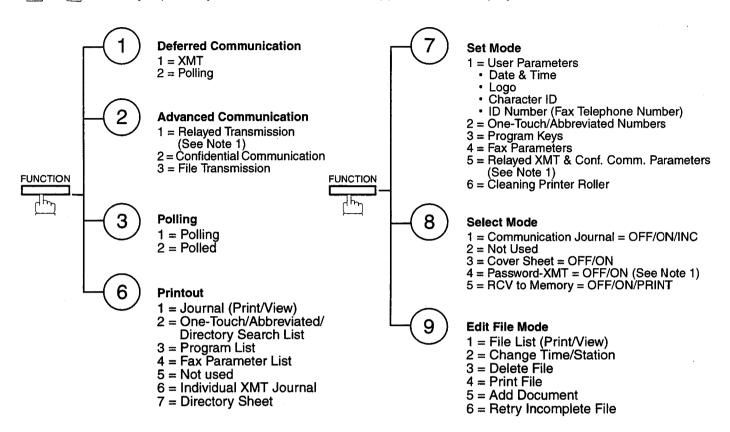
| | Model Name | | | | | | | | | | | 115.005 | ğ | | | | | | | | | ı | 1 | | l | | 1 | | ļ | ı | | İ | İ | | |
|--------------|------------|----------------------------|--------------------|----------|-----------|---------------|------|-----------|-----------------------|--------------------|----------------|----------|---------------|--------------|--|--------------------|-------|---------------|-------|--------------------|----------|--|---------------|---------------|--------------|---|--------------------|----------|--------------------|----------------|-----|--------------|--------|--|--|
| Ref Safety | L | | F | ŀ | ŀ | F | t | F | 1 | F | - | 5 | 3 | ŀ | F | F | ŀ | ļ | - | ŀ | ŀ | ŀ | ļ | F | ŀ | 1 | | ام | Į | ŀ | ļ | ł | 7 | | |
| No. Mark | | Description | AUAGAAABADAE | ₹ | ¥ | DAE | ⋖ | FAGAHAJAK | Ž | ₹ | AMA | ₹ ¥ | AA | ASA | ANAPAGAHASATIAVAWEEYGYGYJYMYTIVVYWYXAUAGABAEAGAHAKAL | WEE | 70 | <u> </u> | Σ¥. | ξ | Š | 퐣 | N | EAG. | AH A | ₹ | AMAPAHAT | AHA | A | AVAWE | EXC | EEYCYGYVY | Š | Location | |
| 1107 | DZFN000048 | Telephone Line Cable | · | | ŀ | Ŀ | Ŀ | F | ŀ | ŀ | · | · | · | <u>:</u> | Ŀ | • | ÷ | ŀ | - | Ė | Ŀ | : | Ŀ | · | + | Ŀ | ŀ | t | F | ŀ | Ŀ | + | Ŀ | 4A | |
| 1107 | DZFN000050 | Telephone Line Cable | ŀ | <u>:</u> | - | Ŀ | Ė | - | <u>:</u> | Ŀ | : | Ŀ | [| Ė | Ŀ | ŀ | ÷ | Ŀ | ŀ | t | F | ŀ | L | ŀ | | Ŀ | ! | Ė | ŀ | + | Ŀ | | E | 4A | |
| 1107 | DZFN000076 | Telephone Line Cable | F | H | ŀ | Ŀ | Ė | F | Ė | E | ŀ | Ė | E | H | ŀ | [| ŀ | Ŀ | F | Ė | E | | ŀ | • | : | Ŀ | : | Ė | Ŀ | : | ŀ | | | 4A | |
| 1107 | DZFN000075 | Telephone Line Cable | | Ė | | ٠ | Ė | | ÷ | · | ŀ | Ŀ | \vdash | Ė | Ŀ | • | Ė | \Box | ŀ | ÷ | Ŀ | <u>:</u> | Ŀ | • | • | · | ŀ | | Ŀ | H | | H | 4 | 4A | |
| 1107 | DZFN000069 | Line Cable | | 1. | | • | ř | - | - - | \cdot | - - | Ŀ | | \cdot | 1. | | | · | ŀ | · | Ŀ | <u>:</u> | ŀ | Ξ | - | | Ŀ | | Ŀ | ŀ | Ŀ | - | 4 | 4\$ | |
| 1107 | DZFE000022 | | • | - | | ٠ | ŀ | ŀ | • | Ŀ | • | | | • | · | • | Ė | | • | Ė | : | ŀ | Ė | | ŀ | Ŀ | Ŀ | | ŀ | ŀ | Ŀ | ŀ | Ŀ | 4A | |
| 1107 | DZFN000026 | Line Cable | | ٠ - | • | Ŀ | F | • | ŀ | · | • | - | ٠ | • | - | | - | • | • | Ė | - | ŀ | Ē | • | • | | • | • | · | · | Ŀ | - | - 4 | 4A | |
| 1107 | DZFE000003 | FIN PTT-Plug | Ŀ | ŀ | · | Ŀ | Ė | • | ŀ | · | | Ė | ŀ | ÷ | | · | Ė | Ŀ | ŀ | t | F | ŀ | Ŀ | • | - | Ŀ | | ŀ | • | | · | | | 4A | |
| 1107 | DZFN000104 | Telephone Line Cable | : | ŀ | , | Ŀ | F | • | ŀ | ŀ | - | | - | - | F | [| ŀ | ŀ | 1 | ŀ | ŀ | ŀ | Ŀ | • | ŀ | | · | Ė | - | , | Ŀ | | · | Į. | |
| 1107 | DZQE000003 | | • | Ė | <u> </u> | Ŀ | Ė | <u>:</u> | ļ. | ŀ | | L | • | | Ŀ | • | - | F | F | Ė | 1 | + | | F | + | | ŀ | \vdash | ŀ | ╁ | Ε | - | | 44 | |
| 1107 | DZQE000005 | Rosette | 1:1: | 1: | ŀ | Ŀ | H | - | • | Ŀ | ŀ | Ε | ŀ | - | Ė | Ŀ | Ŀ | Ŀ | • | ŀ | | - | Ŀ | Ŀ | • | · | = | | | ; | Ŀ | <u>:</u> | Ŀ | 4A | |
| 1107 | DZFB000005 | | Ŀ | H | • | Ŀ | Ė | Ŀ | Ė | Ŀ | - | Ŀ | F | H | Ē | Ŀ | Ė | Ŀ | Ŀ | Ė | Ŀ | <u>'</u> | Ŀ | | <u> :</u> | | Ŀ | Ė | ÷ | - | · | + | Ŀ | †¥ | |
| 1107 | DZFB000004 | - PTT-Plug | - | ŀ | ÷ | · | Ė | • | ŀ | · | ٠ | | • | - | Ξ | • | Ė | ŀ | ŀ | - | • | · | Ŀ | | • | · | · | <u>:</u> | : | <u>:</u> | Ī | + | - 4 | 4A | |
| 1107 | DZFN000095 | Line Cable | • | Ē | · | Ŀ | H | F | ŀ | Ŀ | H | | F | | Ŀ | F | Ė | Ē | ŀ | Ė | • | • | Ξ | • | | Ŀ | Ŀ | ŀ | · | | | - | Ŀ | 4A | |
| 1107 | DZFN000105 | PTT-Plug | - | H | H | Ē | H | | Ė | Ŀ | H | Ŀ | \vdash | ÷ | 11 | - | ÷ | Ξ | Ŀ | Ė | Ŀ | ÷ | Ŀ | • | ŀ | Ŀ | Ŀ | Ė | - | • | · | | | 4A | |
| 1107 | DZFN000106 | | • • | · · | | Ŀ | Ŀ | [| ŀ | \cdot | Ĥ | \Box | 111 | · · | - | | | Ŀ | ŀ | Ė | Ŀ | <u> </u> | Ŀ | : | <u>:</u> | Ŀ | Ŀ | - | · | ÷ | Ŀ | + | | 4A | |
| 1107 | DZFN000107 | - PTT-Plug | • | ŀ | 1 | · | Ė | - | Ė | \cdot | • | - | | | Ŀ | | Ė | · | Ŀ | · | ŀ | ŀ | Ŀ | Ŀ | | | • | • | : | • | · | : | Ŀ | 44 | |
| 1107 | DZFN000108 | | | Ė | <u>:</u> | Ŀ | Ė | E | + | Ŀ | <u> -</u> | Ŀ | • | Ŀ | Ē | - | Ė | Ŀ | ŀ | Ė | Ŀ | ŀ | Ŀ | F | - | L | Ŀ | | | ŀ | Ŀ | ŀ | Ŀ | 4A | |
| 1107 | DZFN000109 | | | · [· | • | $\overline{}$ | Ŀ | - | | \cdot | ÷ | Ŀ | | - | | - - | - - | Ŀ | ŀ | Ė | • | • | Ŀ | ŀ | ŀ | | Ŀ | | ŀ | ŀ | Ŀ | ŀ | Ŀ | 4A | |
| 1107 | DZFN000096 | | ш | · | ÷ | Ŀ | | \Box | H | $\overline{\cdot}$ | ÷ | | Ē | Ė | Ŀ | Ŀ | Ė | \Box | · | Ė | ŀ | <u>:</u> | · | Ŀ | <u>:</u> | Ŀ | Ŀ | ŀ | • | ŀ | Ŀ | ŀ | · | 4A | |
| 1107 | DZFN000097 | | $\overline{\cdot}$ | ÷ | • | | | \cdot | ÷ | \Box | Ĥ | Ŀ | \Box | | | \Box | | \sqsubseteq | Ŀ | Ŀ | | ÷ | Ŀ | • | <u>·</u> | Ŀ | ŀ | • | Ŀ | <u>.</u> | · | ŀ | | 4A | |
| 1107 | DZFN000098 | PTT-Plug | | ÷ | • | · | · | • | ÷ | • | • | · | - | • | • | - | • | - | - | - | Ŀ | - | ٠ | $\dot{\cdot}$ | · | Ŀ | • | ŀ | • | ŀ | Ŀ | <u> </u> | - | 44 | |
| 1108 | DZFM000004 | | | | - | ቯ | Ħ | F | Ë | • | | Ξ | F | F | | \Box | Ē | E | - | $\overline{\cdot}$ | Ŀ | ŀ | ŀ | - | - | Ŀ | Ξ | - | - | • | Ξ | - | - 4 | 4A | |
| 1108 ₩ | DZFM000012 | Power Cord | ۰ ا - ا | (1) | (1) | | X(I) | 1)(1) | <u>-</u> (1) | Ŀ | (1) | Ξ | (1) | U(I) | 1(1) | | 1)(1) | Œ | (I) | | Ŀ | ŀ | Ŀ | Ξ | € | Ŀ | Ξ | Ξ | (1)(1) | • | Ξ | € | - 4 | 4A | |
| 1108 | DZFM000028 | | | Œ | - [(1) |) - (| Œ | 1)(1) | · (1) | 耳 | (I) | Ξ | - ((1) | (1)(1 | Œ | | | E | (1) | - | - | | · | Ξ | Ē | · | Ξ | Ξ | Ξ | ŀ | Ξ | Ξ | · | 4A | |
| 1108 | DZFM000018 | Power Cord | 1 | Ė | | \cdot | Ŀ | Ŀ | Ė | $\overline{\cdot}$ | Ļ | Ī | | · | | - - | Ė | Ŀ | Ŀ | Ė | ŀ | - | · | ŀ | : | Ŀ | : | ŀ | Ŀ | - | L | ŀ | Ŀ | 4A | |
| 1108 | DZFM000003 | | (1)(1) | ÷ | • | Ŀ | Ŀ | Ŀ | Ė | Ŀ | ŀ | Ŀ | ŀ | • | Ē | F | Ė | • | · | Ė | Ė | Ξ | Ŀ | : | ÷ | | ŀ | | ŀ | ŀ | ŀ | - | | 4₩ | |
| 1108 | DZFM000027 | | (1)(1) | | ÷ | | Н | A | H | - | Н | Ճ | • | · | ᆸ | $\overline{\cdot}$ | | \Box | - - | Ė | <u>·</u> | (1)(1 | · | • | • | · | Ŀ | | | ŀ | Ŀ | ŀ | Ŀ | 4A | |
| 1108 | DZFM000017 | | 1 | | ij | | Н | | H | | H | ₫ | | | Ħ | | | | - | Ė | Ξ | ŀ | Ξ | • | - | · | Ŀ | ŀ | 1 | | Ŀ | ŀ | = | 4A | |
| 1108 | DZFM000029 | | | - (1 | <u>.</u> | | | - | - | \exists | H | <u> </u> | 1) | - | - | - | - |) | 1) | • | (1) | • | (1) | • | - ((1) | - | · | ŀ | ŀ | ŀ | Ŀ | ŀ | (1) 4A | 1A | |
| 1108 | DZFM000009 | Power Cord | - | - | : | \exists | 1 | 4 | $\frac{\cdot}{\cdot}$ | Ξ | 4 | ╛ | 7 | ! | - | - | | | - | ÷ | • | • | | | • | - | $\overline{\cdot}$ | Ė | $\overline{\cdot}$ | ÷ | Ŀ | • | - 4 | 4A | |
| 1108 | DZFM000031 | Power Cord | - | - | $\dot{-}$ | Ξ | • | - | ÷ | Ξ | • | ١ | - | • | ĭ | 1 | • | Ξ | - | ÷ | - | • • | $\overline{}$ | • | • | Ξ | | · | · | Ξ | Ŀ | ŀ | - | 44 4 | |
| 1108 | DZFM000043 | | • | • | - | | | - | ÷ | · | • | · | \cdot | • | · | - | - | - | Ŀ | Ξ | - | ŀ | · | - | • | Ŀ | · | • | • | <u> </u> | • | • | | 4A | |
| 1108 | DZFM000034 | Power Cord | - | | • | - | • | - | ÷ | $\overline{}$ | • | - | - | - | - | - | • | · | , | Ŀ | ŀ | H | L | Ŀ | • | · | • | | • | - | Ŀ | ŀ | Ŀ | ₹ ∀ | |
| 1108 ₽ | DZFM000030 | | - [- [| | - | \Box | Ė | Ŀ | Ė | 三 | ÷ | | $\dot{\cdot}$ | ÷ | - | - | Ė | \cdot | - | Ė | ŀ | ŀ | Ŀ | ŀ | ŀ | · | Ŀ | | Ŀ | - | Ē | <u>:</u> | | 4A | |
| 1108 | DZFM000011 | | - | • | • | • | | · | Ė | · | ÷ | Ξ | • | - - | Ŀ | (1) | ŀ | · | - | | Ŀ | ŀ | Ŀ | · | • | ŀ | · | ÷ | Ŀ | = | : | + | ŀ | 4A | |
| 1108 | DZFM000010 | Power Cord | - - | | • | · | | • | | $\overline{\cdot}$ | <u>-</u> | · | • | ÷ | - | - | - | 1 | · | Ŀ | • | ŀ | | • | • | · | · | : | • | ٠ | : | + | - | ₩\$ | |
| 1108 | DZFM000032 | Power Cord | - - | H | • | • | | • | | Ť | <u>.</u> | • | • | • | • | • | - | - | | • | • | ŀ | | | ŀ | Ĕ | · | ŀ | | = | - | • | | A | |
| 1109 | DZHD000008 | Box, Accessories | 111 | Ξ | 1 | Ξ | - | - | - | Ξ | + | Ξ | 1 | Ē | Ξ | - | Ε | Ξ | Ē | Ξ | Ξ | - | Ξ | Ξ | - | Ε | Ξ | = | E | = | Ξ | - | 1 | 78 | |
| 1113 | CR2032 | Battery | - | - | - | Ξ | F | = | - | Ξ | - | - | - | - | F | 1 | - | Ξ | - | 1 | | - | Ξ | = | - | Ξ | Ξ | = | Ξ | - | Ξ | = | 13 | ## ## ## ## ## ## ## ## ## ## ## ## ## | |
| 1114 | DZJC000236 | Holder, Battery | 1 1 1 | H | - | Ξ | Ė | Ξ | F | Ξ | - | Ξ | Ξ | F | H | - | = | Ε | - | Ē | Ξ | - | Ξ | Ξ | = | Ė | Ξ | E | E | = | Ξ | = | - | AS . | |
| 1115 | WA | (See Ref. No. 138 and 139) | Ξ | Ε | = | Ξ | F | Ξ | - | Ξ | - | Ξ | = | = | Ξ | Ξ | - | Ξ | E | E | Ξ | = | Ξ | Ē | Ξ | E | Ε | Ξ | Ξ | = | Ε | = | Ē | 58 | |



8 Installation

8.1 Function Key

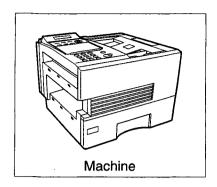
Any function can be started by first pressing FUNCTION and then enter the function number, or by pressing $\boxed{\bullet}$ or $\boxed{\bullet}$ scroll key repeatedly until the desired function appears on the display.

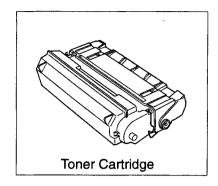


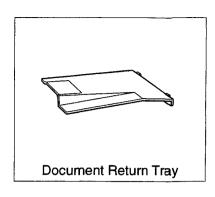
Note: 1. If Fax Parameter is not preset to a Valid position, which enables you to use the function, the display will not show the function.

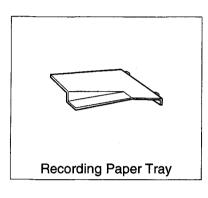
8.2 Main Unit and Accessories

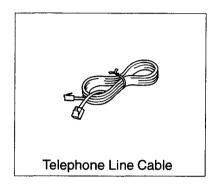
Unpack the carton and check that you have all the accessories illustrated.

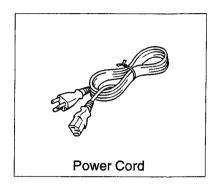


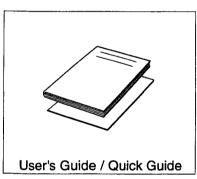


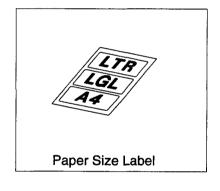


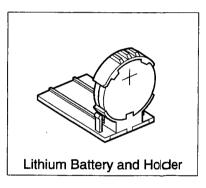




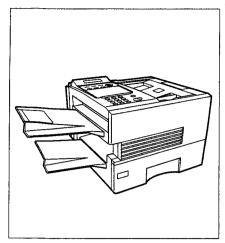








8.3 Installing the Accessories

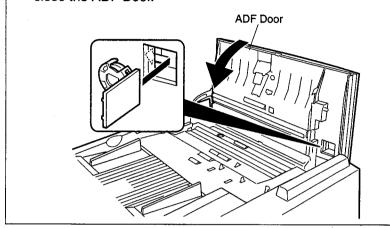


Final Installed View

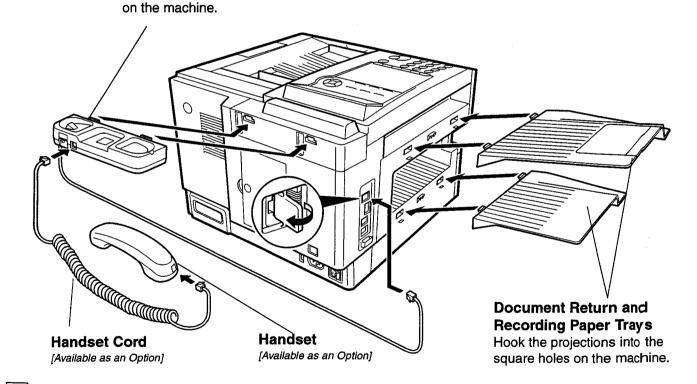
Installing the Lithium Battery

(This battery is used to backup the clock during power failures, see page 164 of the User's Guide.)

- (1) Open the ADF Door.
- (2) Install the Battery Holder, slide it to the Left until it latches and close the ADF Door.



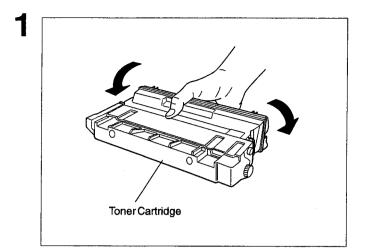
Handset Cradle [Available as an Option]
Hook the projections into the square holes on the machine.
Connect the cable into the HANDSET jack



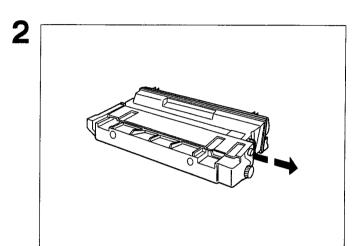
Note:

1. For some countries, the handset may not be available because of the country's regulation or specification.

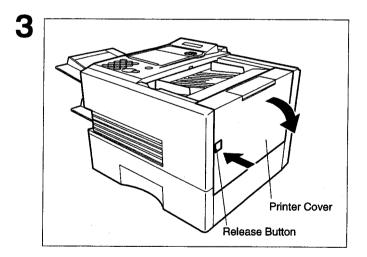
8.4 Installing the Toner Cartridge



Unpack the Toner Cartridge and rock it back and forth as shown for 5 or 6 times to even the toner inside.

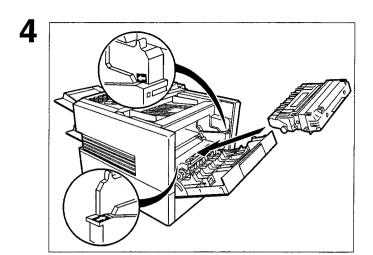


Remove the protective seal.

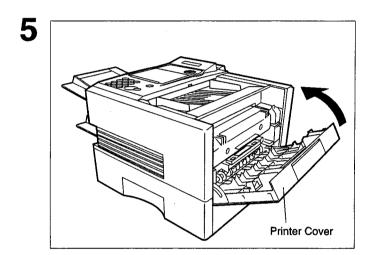


Push the Release Button to open the Printer Cover.

Continued on the next page.



Align the arrow and the projection on both sides as shown and insert the Toner Cartridge into the machine.



Close the Printer Cover firmly.

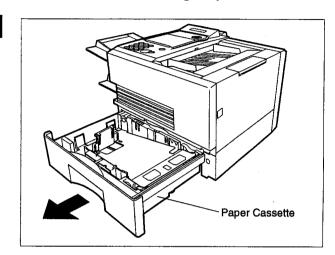
If you are replacing the Toner Cartridge, it is recommended to clean the Printer Roller to maintain good printing quality. To clean the Printer Roller, follow the procedure on page 161 of the User's Guide.

8.5 Loading the Recording Paper

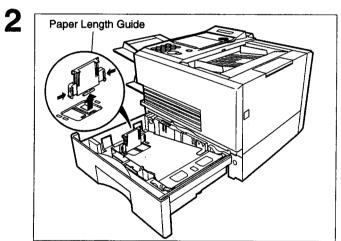
Paper Specifications

In general, most bond papers will produce excellent results. Most photocopy papers will also work very well. There are many "name" and "generic" brands of paper available. We recommend that you test various papers until you obtain the results you are looking for. For detailed recommended paper specifications, see page 170 of the User's Guide.

How to Load the Recording Paper



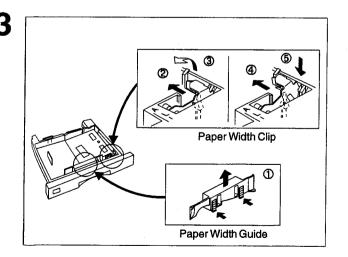
Slide out the Paper Cassette from the machine.



Adjust the Paper Length Guide to the proper paper size (A4, LTR, or LGL).

For LGL size paper, remove the Paper Length Guide and store it in the provided slot in the front left side of the Paper Cassette.

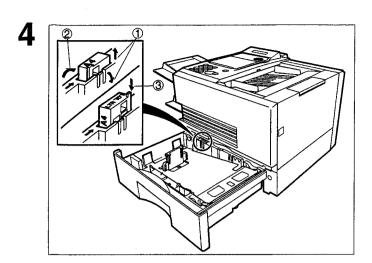
If reloading the same size of paper, skip the step 2 and 3.



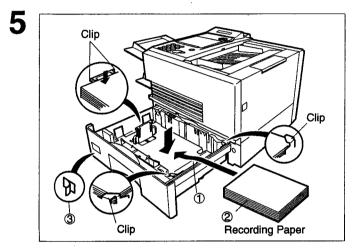
Adjust the Paper Width Guide and Clip to the proper paper (A4, or LTR/LGL).

The factory default for the Paper Width Guide and Clip are on LTR/LGL position. For A4 paper size, adjust by following the steps below.

- (1) Replace the Paper Width Guide into the proper slot (A4 or LTR/LGL).
- (2) Release the Paper Width Clip latch.
- (3) Pull upwards to remove the Paper Width Clip.
- (4) Replace the Paper Width Clip into the A(A4) or L(LTR/LGL) slot.
- (5) Push down on the Paper Width Clip lo latch it in place.



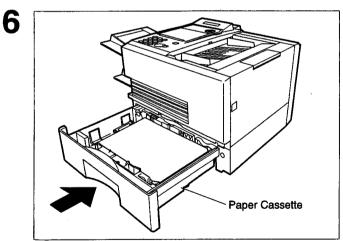
- (1) Release the hook and remove the Paper Size Selector.
- (2) Rotate the Paper Size Selector until the appropriate setting marked on the Selector is facing upward and the wording is upright.
- (3) Reinstall the Paper Size Selector.



- (1) Push the Pressure Plate until it is locked down.
- (2) Load the paper into the Paper Cassette.

Caution: Make sure that the paper is set under the clips of the Paper Cassette. You can load about 500 sheets with standard weight paper (20 lb. or 75 g/m²). For paper specification see page 170 of the User's Guide.

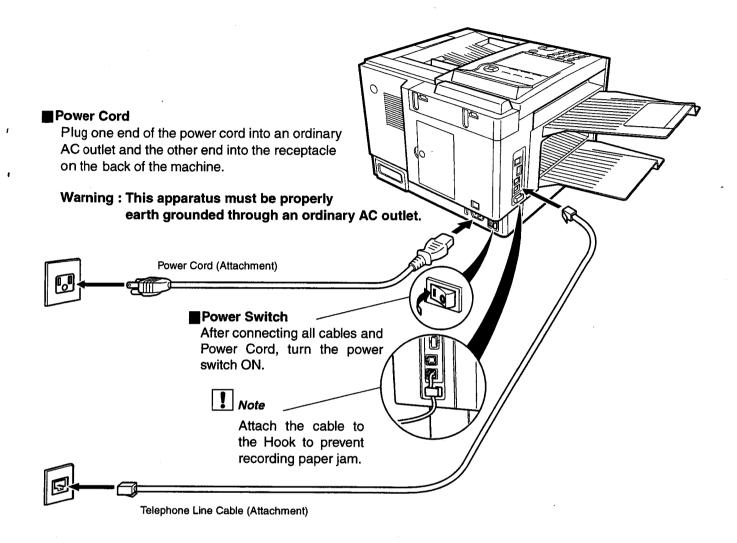
(3) Set the proper paper size label.



Slide the Paper Cassette into the machine.

Note:
1. Your machine will properly print on A4, Letter and Legal size paper only. If other size of paper (B4, B5, A5) is used,

8.6 Connecting the Telephone Line Cable and Power Cord



Telephone Line Cable

Plug one end of the telephone line cable into the telephone jack supplied by the telephone company and the other end into the LINE jack on the left side of the machine.

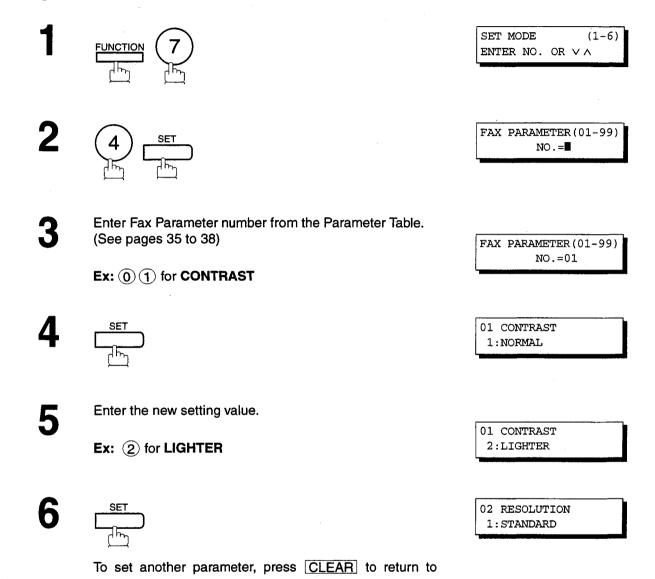
Note:

1. Your machine uses little power and you should keep it ON at all times.

8.7 Customizing Your Machine

Your facsimile machine has a variety of adjustable Fax Parameters. These parameters, listed in the Parameter Table, are preset for you and do not need to be changed. If you do want to make a change, read the table carefully. Some parameters, such as the Resolution, Contrast, and Verification Stamp parameters, can be temporarily changed by simple key operation just before a transmission is made. When the transmission ends, however, these parameters return to their preset values (Home position). Other parameters can only be changed by the procedure described below.

Setting the Fax Parameters





1. To scroll the Fax Parameters in Step 2 or 4, press ▼ or ▲.

step 3 or press STOP to return to standby.

2. To print out a Fax Parameter List, see page 151 of the User's Guide.

Fax Parameter Table

| No. | Parameter | Setting Number | Setting | Comments |
|--------|--------------------|-------------------|--------------|--|
| 01 | CONTRAST | 1 | Normal | Setting the home position of the CONTRAST key. |
| | | 2 | Lighter | 1 |
| | | 3 | Darker | |
| 02 | RESOLUTION | 1 | Standard | Setting the home position of the RESOLUTION key. |
| | | 2 | Fine | |
| | | 3 | S-Fine | |
| 04 | STAMP | 1 | Off | Setting the home position of the STAMP key. |
| | | 2 | On | To select the stamp function when document is stored in memory, see Fax Parameter No. 28. |
| 05 | MEMORY | 1 | Off | Setting the home position of the MEMORY key. |
| | | 2 | On | |
| 06 | DIALING METHOD | 1 | Pulse | Selecting the dialing method. |
| | | 2 | Tone | |
| 07 | HEADER PRINT | 1 | Inside | Selecting the printing position of the header. |
| | | 2 | Outside | Inside : Inside TX copy area. Outside : Outside TX copy area. |
| | | 3 | No print | No print : Header is not printed. |
| 08 | HEADER FORMAT | 1 | Logo, ID No. | Selecting the header format. |
| | | 2 | From To | |
| 09 | RCV?D TIME PRINT | 1 | Invalid | Selecting whether the machine prints the received date & time |
| | | 2 | Valid | remote ID, percentage of reduction and page number on the bottom of each received page. |
| 10 | KEY/BUZZER VOLUME | 1 | Off | Selecting the volume of the Key/Buzzer tone. |
| | | 2 | Soft | |
| | | 3 | Loud | |
| 12 | COMM. JOURNAL | 1 | Off | Selecting the home position of printout mode for COMM. Journal Off/Always/INC. |
| | | 2 | Always | Off : No printout Always : Always prints out |
| | | 3 | Inc. only | Inc. only: Printout when communication has failed. |
| 13 | AUTO JOURNAL PRINT | 1 | Invalid | Selecting whether the machine prints the journal automatically |
| | | 2 | Valid | after every 100 transactions. |
| 14 | FILE ACCEPTANCE | 1 | Invalid | Selecting whether the machine prints the file acceptance journal. |
| | REPORT | 2 | Valid | If you set this parameter to valid, a journal will print out after any memory communication. |
| 17 | RECEIVE MODE | 1 | Manual | Setting the reception mode to automatic or manual. |
| | | 2 | Auto | |
| 22 | SUBSTITUTE RCV | 1 | Invalid | Selecting whether the machine receives to memory when recording paper runs out, toner runs out or recording paper is |
| i İ | | 2 | Valid | jammed. |
| | L | | | |

Continued on the next page.

| No. | Parameter | Setting Number | Setting | Comments |
|-----|-------------------|-------------------|--------------|---|
| 24 | PRINT REDUCTION | 1 | Fixed | Selecting print reduction mode. Fixed: Reduce received document according to setting of Parameter No. 25. |
| | | 2 | Auto | Auto: Reduce received document according to the length of received documents. |
| 25 | REDUCTION RATIO | 70 | 70% | Selecting fixed print reduction ratio from 70% to 100%. This |
| | | | | parameter functions only when fixed print reduction is selected on Fax Parameter No. 24. |
| | | 100 | 100% | |
| 26 | POLLING PASSWORD | | () | Setting a 4-digit password for secured polling. (See page 68) |
| 27 | POLLED FILE SAVE | 1 | Invalid | Selecting whether the machine retains the polled document in |
| | | 2 | Valid | memory even after the document is polled once. |
| 28 | STAMP AT MEM. XMT | 1 | Invalid | Selecting whether the machine stamps the original documents |
| | | 2 | Valid | when storing the documents into memory. (depending on the Stamp setting on the Control Panel) |
| 30 | DRD SERVICE | 1 | Invalid | Selecting whether or not the machine is available "DRD Service". |
| | | 2 | Valid | If this parameter is set to "Valid", your machine detects the specified ring pattern only to receive a document automatically. |
| 31 | INCOMPLETE FILE | 1 | Invalid | Selecting whether the machine retains the document in memory if |
| | SAVE | 2 | Valid | the document is not successfully transmitted. |
| 32 | COPY REDUCTION | 1 | Manual | Selecting whether the machine performs the copy reduction ratio automatically or manually. Manual: The machine will prompt you for the Zoom ratio (100% to |
| | | 2 | Auto | 70%) when making copies. Auto : The machine will automatically determine the reduction ratio according to the length of the original document. |
| 33 | XMT REDUCTION | 1 | Invalid | Selecting whether the machine performs reduction when the |
| | | 2 | Valid | transmitting document is wider than the recording paper used at the receiving machine. |
| 34 | ENERGY SAVER MODE | 1 | Off | To reduce the power consumption in standby, select either Energy-Saver or Sleep mode and specify the Delay Time (1 to 120 minutes) for the machine to enter into the selected mode. The Delay Timer setting is only available in the Energy-Saver or Sleep Modes. |
| • | | 2 | Energy-Saver | Off: The unit will remain in standby mode and consume more energy than when in Energy-Saver or Sleep modes. Energy-Saver Mode: Saves energy by consuming less power than when in standby mode by turning off the fuser unit after the specified time. Sleep Mode: This is the lowest power state that the |
| | | 3 | Sleep | machine enters after the specified time without actually turning off. (Sleep Mode is not available when the optional Parallel Port Interface Kit, Page Description Language Printer Interface Kit or G3 Communication Port Kit is installed) |

Continued on the next page.

| No. | Parameter | Setting Number | Setting | Comments | |
|-----|-------------------------|-------------------|---------|---|--|
| 37 | RCV TO MEMORY | | () | Enter a 4-digit password used to print out the received document in memory by using F8-5 (RCV TO MEMORY). When F8-5 is set to On, this parameter will not be shown on the LCD display. (See page 87 of the User's Guide.) | |
| 38 | ACCESS CODE | | () | Enter a 4-digit Access Code to secure the machine from unauthorized use. (See page 85 of the User's Guide.) | |
| 40 | RELAY XMT REQUEST | 1 | Invalid | Selecting whether the machine accepts and performs Relay XMT | |
| | | 2 | Valid | Request. (See page 125 of the User's Guide.) | |
| 41 | CONF. FAX PARAMETER | 1 | Invalid | Selecting whether the machine performs Confidential Network | |
| | • | 2 | Valid | Communication. (See page 125 of the User's Guide.) | |
| 42 | CONF. POLLED FILE | 1 | Invalid | Selecting whether the machine saves the confidential polled file | |
| | SAVE | 2 | Valid | even after the file is polled once. | |
| 43 | PASSWORD-XMT | 1 | Off | Setting a 4-digit XMT-Password and selecting whether the | |
| | | 2 | On | machine performs and checks the XMT-Password of the receiving station when transmitting. (See page 113 of the User's Guide.) | |
| 44 | PASSWORD-RCV | 1 | Off | Setting a 4-digit RCV-Password and selecting whether the | |
| | | 2 | On | machine performs and checks the RCV-Password of the transmitting station when receiving. (See page 114 of the User's Guide.) | |
| 46 | SELECT RCV | 1 | Invalid | Selecting whether the machine performs selective reception. | |
| | | 2 | Valid | (See page 111 of the User's Guide.) | |
| 48 | TELEPHONE LINE | 1 | PSTN | Selecting the type of line connected. | |
| | | 2 | PBX | _ | |
| 49 | PSTN ACCESS CODE | | 0 | Setting PSTN Access Code. (max. 4 digits) | |
| 50 | FLASH KEY | 1 | Earth | Selecting to use FLASH on control panel either as Earth key or | |
| | | 2 | Flash | Flash key. | |
| 52 | DIAGNOSTIC PASSWORD | | () | Setting the password for Remote Diagnostic Mode. Please ask your Panasonic Authorized Dealer for details. | |
| 53 | SUB-ADDRESS PASSWORD | | () | Setting a 20-digit password for secured sub-address communication. | |
| 54 | FAX FORWARD | 1 | Invalid | Selecting whether the machine performs Fax Forwarding to the | |
| | | 2 | Valid | specified destination. (See page 92 of the User's Guide.) | |
| 56 | COVER SHEET | 1 | Off | Setting the home position of the Cover Sheet parameter in the | |
| | | 2 | On | Select Mode. (See page 90 of the User's Guide.) | |
| 58 | LANGUAGE | 1 | English | Selecting the language to be shown on the display and reports. | |
| | | 2 | German | | |
| 60 | OPTION PAGE MEMORY | 1 | 0MB | Set the size of the page memory to match the optional Expansion | |
| | (D-RAM Card) | 2 | 2MB | D-RAM Card installed in the machine. (See page 171 of the User's Guide.) | |
| | | 3 | 4MB | | |
| | | 4 | 8MB | | |

Continued on the next page.

| No. | Parameter | Setting Number | Setting | Comments |
|-----|--------------------------------|-------------------|------------|--|
| 65 | PRINT COLLATION | 1 | Invalid | Selecting whether the machine prints out documents in sequence. |
| | | 2 | Valid | (See page 63 of the User's Guide.) |
| 77 | LOGO/DEPT. CODE | 1 | Invalid | Selecting whether the machine performs the Multiple Logo or |
| | | 2 | Multi-LOGO | Department Code operation. (See pages 97 and 106 of the User's Guide.) |
| | | 3 | Dept.Code | |
| 82 | QUICK MEMORY XMT | 1 | Invalid | Selecting whether the machine performs Quick Memory Transmission. (See page 46 to 49 of the User's Guide.) Invalid: Stores all documents into memory first before dialing the |
| | | 2 | Valid | telephone number. Valid: Starts dialing the telephone number immediately after storing the first page. |
| 88 | LINE SELECTION [See Note 2] | 1 | Auto | Setting the home position of the Telephone Line selection. Auto: Selects the available telephone line for transmission |
| | | 2 | Line 1 | automatically. Line1: Selects this as the default telephone line, unless man selecting an alternate phone line. |
| | | 3 | Line 2 | Line2: Selects this as the default telephone line, unless manually selecting an alternate phone line. |
| 99 | MEMORY SIZE (Flash Memory) | - | - | Displays the amount of base and optional memory installed. (Base Memory + Optional Memory) |

Note:

1. The standard settings are printed on the Fax Parameter List. To print out Fax Parameter List, see page 151

^{2.} This parameter is available only when the G3 Communication Port Option is installed.

^{3.} The contents of Fax Parameter may differ depending on the each country's regulation or specification.

9 Options and Supplies

9.1 Options and Supplies

A. Options:

| Order No. | Picture | Description | Available Models | |
|-----------|----------|--|----------------------------------|--|
| UE-403160 | | Handset Kit | UF-885 UF-895 | |
| UE-409057 | | 250 sheets Letter / Legal / A4 Size Paper Cassette with the Feeder Unit | UF-885 UF-895 | |
| UE-409056 | | 500 sheets Letter / Legal / A4 Size Paper Cassette with the Feeder Unit | UF-885 UF-895 | |
| UE-410045 | | Expansion Flash Memory Card, 1 MB | | |
| UE-410046 | 1 | Expansion Flash Memory Card, 2 MB | UF-885 UF-895 | |
| UE-410047 | | Expansion Flash Memory Card, 4 MB | | |
| UE-410048 | | Expansion Flash Memory Card, 8 MB | | |
| UE-410033 | | Expansion D-RAM Card, 2MB | | |
| UE-410034 | | Expansion D-RAM Card, 4MB | UF-885 UF-895 | |
| UE-410057 | | Expansion D-RAM Card, 8MB | 01-095 | |
| UE-403159 | | Parallel Port Interface Kit (Used for Printer or Scanner Interface) (Available in late Spring of 1999) | UF-885 UF-895 | |
| UE-407019 | | G3 Communication Port Kit (Available in late Spring of 1999) This option is NOT available together with the Page Description Language Printer Interface Kit (UE-403162). | U F-895 | |
| UE-403162 | Julio Co | Page Description Language Printer Interface Kit (Available in late Summer of 1999) This option is NOT available together with the G3 Communication Port Kit (UE-407019). | U F-885 U F-895 | |

B. Supplies:

| Order No. | Picture | Description | Available Models |
|-----------|---------|--------------------|---------------------|
| FX-13-2P | | Verification Stamp | UF-885 UF-895 |
| UG-3313 | | Toner Cartridge | UF-885 UF-895 |

9.2 Installing Optional Feeder Unit (UE-409057)

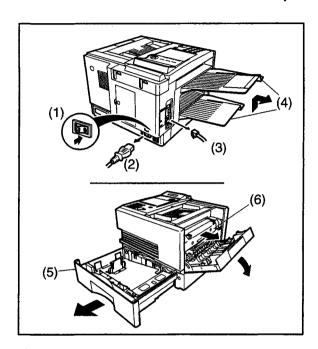
1. Contents

| Qty. | Description | Part No. | Remarks |
|------|--|------------|---------|
| 1 | 250 Sheets Paper Cassette with Feeder Unit | - | |
| 1 | Paper Size Label Set | DZNK000298 | |

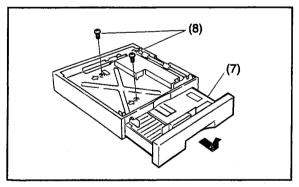
2. Installation

Note:

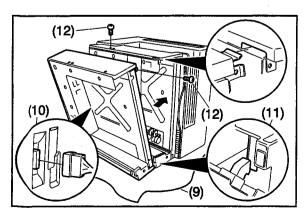
Install this Feeder Unit as the 2nd Feeder Unit only.



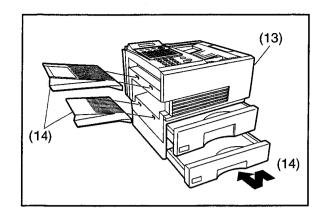
- (1) Turn the Power Switch to the OFF (O) position.
- (2) Disconnect the Power Cord.
- (3) Disconnect the Telephone Line Cable.
- (4) Remove the Document Trays.
- (5) Remove the Paper Cassette from the machine.
- (6) Remove the Toner Cartridge from the machine.



- (7) Remove the Paper Cassette from the Optional Feeder Unit.
- (8) Remove the two Screws on the new Feeder Unit indicated by the arrow marks. (These screws are used to attach the Feeder Unit to the machine in step 12.)



- (9) Place the machine on its right side on top of a clean cloth to prevent damaging the Printer Cover.
- (10) Plug-in the connector of the Feeder Unit.
- (11) Hook the latches of the Feeder Unit into the holes and set the Feeder Unit in the direction of the arrow.
- (12) Secure the Feeder Unit with the screws removel in step 8.



- (13) Place the machine upright.
- (14) Re-install the Document Trays, the Paper Cassettes and the Toner Cartridge.
- (15) Re-connect the Power Cord and the Telephone Line Cable.
- (16) Turn the Power Switch to the ON (I) position.
- (17) Print some pages from the Optional Feeder Unit to confirm its operation.

Note:

The paper size guides are factory set to the Letter size. If you are using either A4 or Legal size paper, please adjust the paper size guides accordingly.

9.3 Installing Optional Feeder Unit (UE-409056)

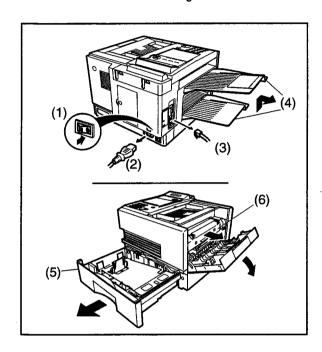
1. Contents

| Qty. | Description | Part No. | Remarks |
|------|--|------------|---------|
| 1 | 500 Sheets Paper Cassette with Feeder Unit | - | |
| 1 | Paper Size Label Set | DZNK000298 | |

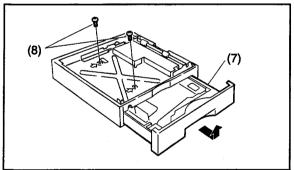
2. Installation

Note:

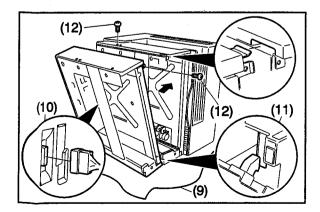
Always install this Feeder Unit at the base of the unit. Install it as the 2nd Feeder Unit when configured for two cassettes or as the 3rd Feeder Unit when configured for three cassettes.



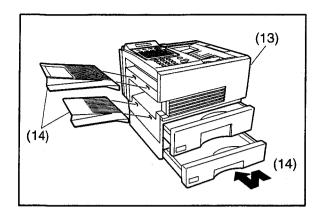
- (1) Turn the Power Switch to the OFF (O) position.
- (2) Disconnect the Power Cord.
- (3) Disconnect the Telephone Line Cable.
- (4) Remove the Document Trays
- (5) Remove the Paper Cassette from the machine.
- (6) Remove the Toner Cartridge from the machine.



- (7) Remove the Paper Cassette from the Optional Feeder Unit.
- (8) Remove the two Screws on the new Feeder Unit indicated by the arrow marks. (These screws are used to attach the Feeder Unit to the machine in step 12.)



- (9) Place the machine on its right side on top of a clean cloth to prevent damaging the Printer Cover.
- (10) Plug-in the connector of the Feeder Unit.
- (11) Hook the latches of the Feeder Unit into the holes and set the Feeder Unit in the direction of the arrow.
- (12) Secure the Feeder Unit with the screws removed in step 8.



- (13) Place the machine upright.
- (14) Re-install the Document Trays, the Paper Cassettes and the Toner Cartridge.
- (15) Re-connect the Power Cord and the Telephone Line Cable.
- (16) Turn the Power Switch to the ON (I) position.
- (17) Print some pages from the Optional Feeder Unit to confirm its operation.

Note:

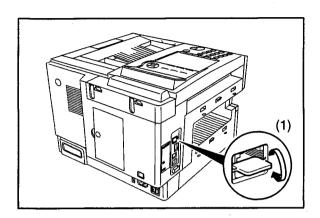
The paper size guides are factory set to the Letter size. If you are using either A4 or Legal size paper, please adjust the paper size guides accordingly.

9.4 Installing Handset Kit (UE-403160)

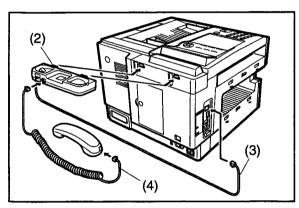
1. Contents

| Qty. | Description | Part No. | Remarks |
|------|-----------------|------------|---------|
| 1 | Handset | DZDU000031 | |
| 1 | Handset Cord | DZFN000066 | |
| 1 | Cradie Assembly | DZML000132 | |

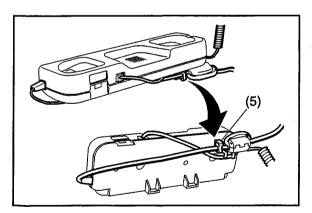
2. Installation



(1) Break off the protective tab of the HANDSET Jack.



- (2) Hook the projections of the Cradle Assembly into the holes on the rear of the machine.
- (3) Connect the cable from the Cradle Assembly to the HANDSET Jack on the left side of the machine.
- (4) Connect the Handset Cord.



(5) Route the Handset Cord along the hooks on the bottom of the Cradle Assembly.

9.5 Installing Parallel Port Interface Kit (UE-403159)

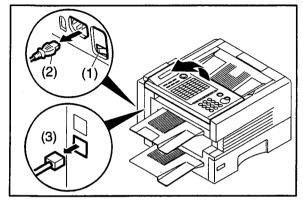
1. Contents

| Qty. | Description | Part No. | Remarks |
|------|-------------------------------------|------------|-----------------|
| 1 | Parallel Port Interface Assembly | DZMA001832 | - |
| 1 | Ribbon Cables | DZHP002970 | - |
| 1 | Screw, 3x8 | XTB3+8J | • |
| 1 | Print/Twain Scanner Driver Diskette | DZQW000112 | Floppy Disk 2HD |

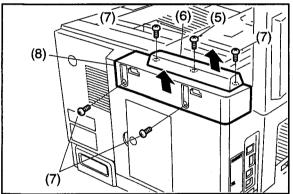
2. Installation

Note:

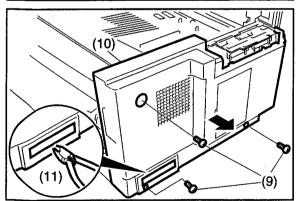
Before starting the installation, prepare the Master Firmware Card with the appropriate Optional Firmware. (See page 48)



- (1) Turn the Power Switch to the OFF (O) position.
- (2) Disconnect the Power Cord.
- (3) Disconnect the Telephone Line Cable.



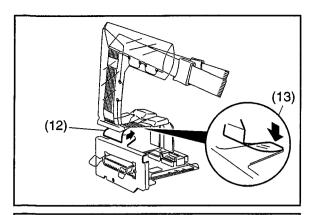
- (4) Open the Control Panel.
- (5) Remove 1 Screw.
- (6) Remove the Memory Card Cover.
- (7) Remove 4 Screws.
- (8) Remove the Sub Rear Cover.



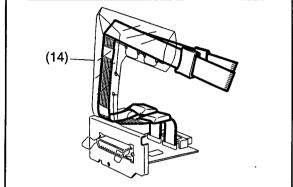
- (9) Remove 3 Screws.
- (10) Remove the Rear Cover.
- (11) Break off the protective tab.

Note:

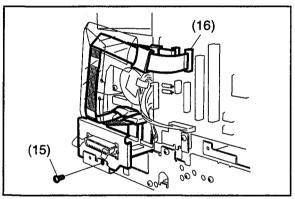
Order a Protective Bracket (P/N: DZJA000633) to cover up the opening if the interface is removed.



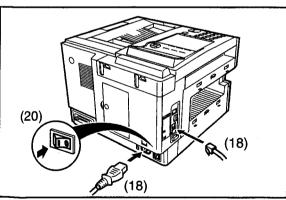
- (12) Peel off the brown adhesive protector from the protective film.
- (13) Secure the protective film to the top of the Parallel Port Interface Bracket as illustrated on the left.



(14) Connect the Ribbon Cables as illustrated on the left.



- (15) Secure the Parallel Interface Assembly with the screw that was enclosed with the kit.
- (16) Connect the Ribbon Cables to the CN51 and CN52 on the FCB PC Board.



- (17) Re-install the Rear Cover.
- (18) Re-connect the Power Cord and the Telephone Line Cable.
- (19) Insert the Master Firmware Card that you have prepared into the machine.
- (20) Turn the Power Switch to the ON (I) position.
- (21) Perform the Service Mode 9-1 (Firmware Update). (See page 186)
- (22) Perform the Service Mode 6 (Parameter Initialization). (See page 179)
- (23) Turn the Power Switch to the OFF (O) position.
- (24) Remove the Master Firmware Card.
- (25) Re-install the remaining Covers.
- (26) Turn the Power Switch to the ON (I) position.

9.6 Installing Page Description Language Printer Interface Kit (UE-403162)

1. Contents

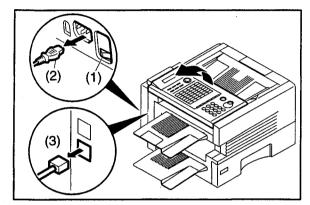
| Qty. | Description | Part No. | Remarks |
|------|----------------------------------|------------|-----------------|
| 1 | Enhanced Printing PC Borad | DZEC101411 | - |
| 1 | PCB Spacer | DZJH000059 | - |
| 1 | Parallel Port Interface Assembly | DZMA001832 | - |
| 1 | Ribbon Cables | DZHP002970 | - |
| 1 | Screw, 3x8 | XTB3+8J | • |
| 1 | Print Driver | DZQX000003 | Floppy Disk 2HD |

2. Installation

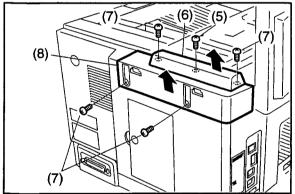
Note:

Make sure that the Parallel Port Interface Assembly has been installed before installing the Enhanced Printing PC Borad. Refer to page 274 and 275 to install the Parallel Port Interface Assembly.

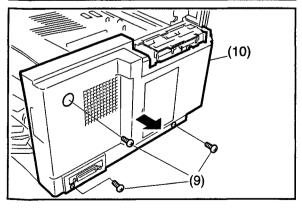
Before starting the installation, prepare the Master Firmware Card with the appropriate Optional Firmware. (See page 48)



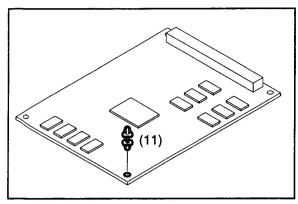
- (1) Turn the Power Switch to the OFF (O) position.
- (2) Disconnect the Power Cord.
- (3) Disconnect the Telephone Line Cable.



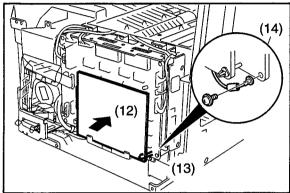
- (4) Open the Control Panel.
- (5) Remove 1 Screw.
- (6) Remove the Memory Card Cover.
- (7) Remove 4 Screws.
- (8) Remove the Sub Rear Cover.



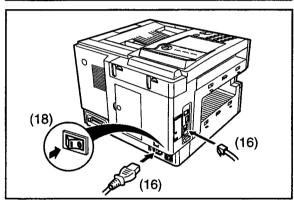
- (9) Remove 3 Screws.
- (10) Remove the Rear Cover.



(11) Insert the PCB Spacer into the hole on the Enhanced Printing PC Borad.



- (12) Connect the Enhanced Printing PC Borad to the CN55 on the FCB PC Board.
- (13) Secure the Enhanced Printing PC Borad by inserting the PCB Spacer into the hole on the FCB PC Board.
- (14) Remove 1 Screw on the FCB PC Board and connect the GND Cable with the screw.



- (15) Re-install the Rear Cover.
- (16) Re-connect the Power Cord and the Telephone Line Cable.
- (17) Insert the Master Firmware Card that you have prepared into the machine.
- (18) Turn the Power Switch to the ON (I) position.
- (19) Perform the Service Mode 9-1 (Firmware Update). (See page 186)
- (20) Perform the Service Mode 6 (Parameter Initialization).
- (21) Turn the Power Switch to the OFF (O) position.
- (22) Remove the Master Firmware Card.
- (23) Re-install the remaining Covers.
- (24) Turn the Power Switch to the ON (I) position.

9.7 Installing G3 Communication Port Kit (UE-407019)

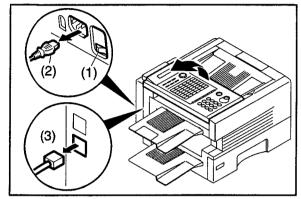
1. Contents

| Qty. | Description | Part No. | Remarks |
|------|-----------------|------------|----------------------|
| 1 | G3 PCB Assembly | DZEC101274 | - |
| 2 | Screw. 3x8 | XYN3+F8 | - |
| 1 | Ribbon Cable | DZFP000709 | - |
| 2 | Screw. 3x8 | DZPB000007 | Silver Colored Screw |

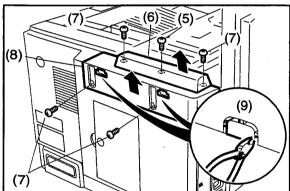
2. Installation

Note:

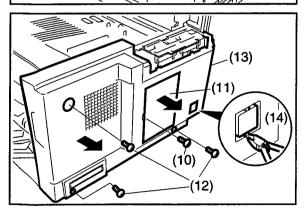
Before starting the installation, prepare the Master Firmware Card with the appropriate Optional Firmware. (See page 48)



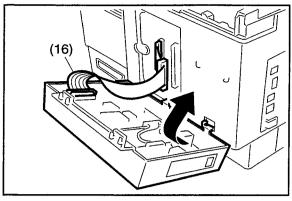
- (1) Turn the Power Switch to the OFF (O) position.
- (2) Disconnect the Power Cord.
- (3) Disconnect the Telephone Line Cable.
- (4) Open the Control Panel.



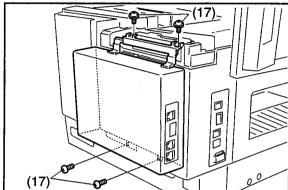
- (5) Remove 1 Screw.
- (6) Remove the Memory Card Cover.
- (7) Remove 4 Screws.
- (8) Remove the Sub Rear Cover.
- (9) Break off the protective tabs on the Sub Rear Cover.



- (10) Remove 1 Screw.
- (11) Remove the Rear Access Cover.
- (12) Remove 3 Screws.
- (13) Remove the Rear Cover.
- (14) Break off the protective tab.
- (15) Re-install the Rear Cover.



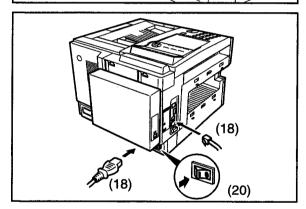
(16) Connect one end of the Ribbon Cable to CN50 on the FCB PC Board and the other to the G3 PC Board.



(17) Secure the G3 PCB Assembly using the 4 Screws which came with the kit.

Note:

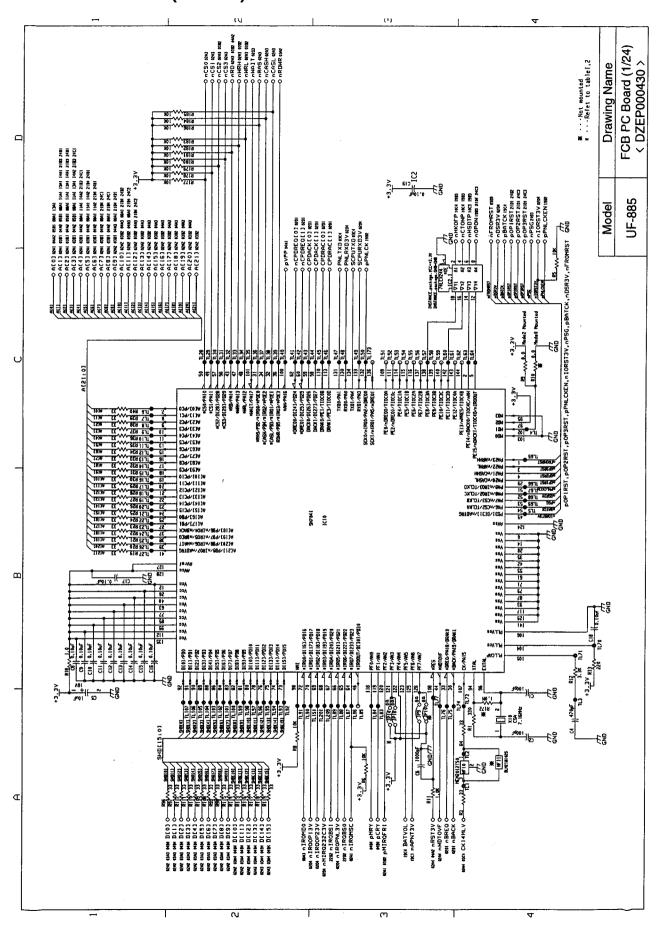
2 screws (XYN3+F8) on the top and the other 2 screws (DZPB000007) on the bottom as illustrated on the left.

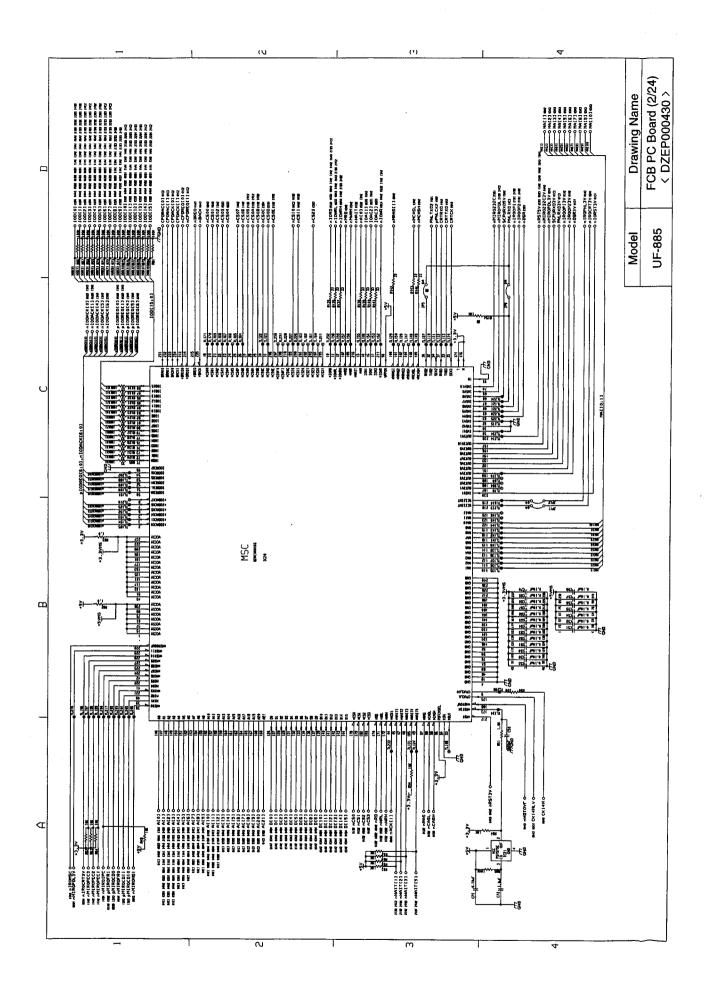


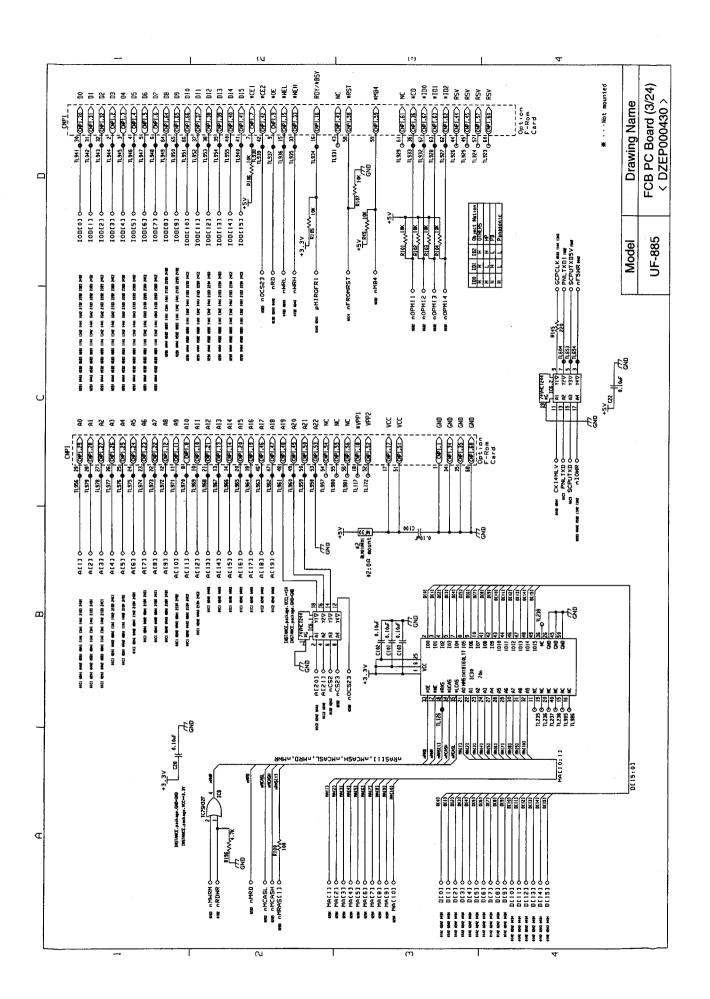
- (18) Re-connect the Power Cord and the Telephone Line Cable.
- (19) Insert the Master Firmware Card that you have prepared into the machine.
- (20) Turn the Power Switch to the ON (I) position.
- (21) Perform the Service Mode 9-1 (Firmware Updale). (See page 186)
- (22) Perform the Service Mode 6 (Parameter Initialization).
- (23) Turn the Power Switch to the OFF (O) position.
- (24) Remove the Master Firmware Card.
- (25) Re-install the remaining Covers.
- (26) Turn the Power Switch to the ON (I) position.

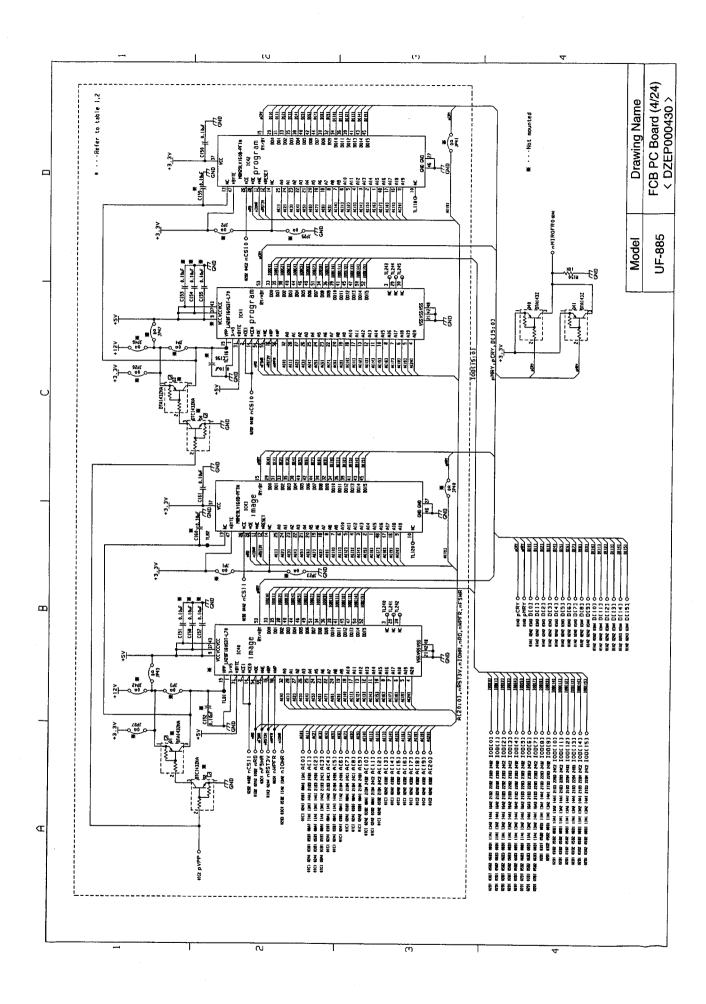
10 Schematic Diagram

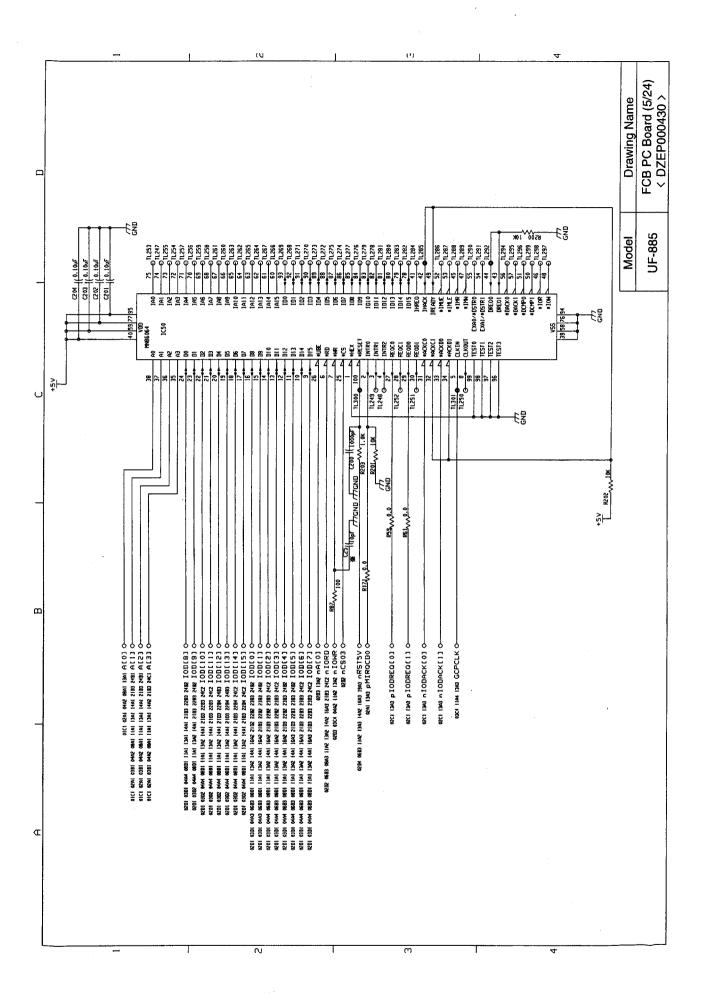
10.1 FCB PC Board (UF-885)

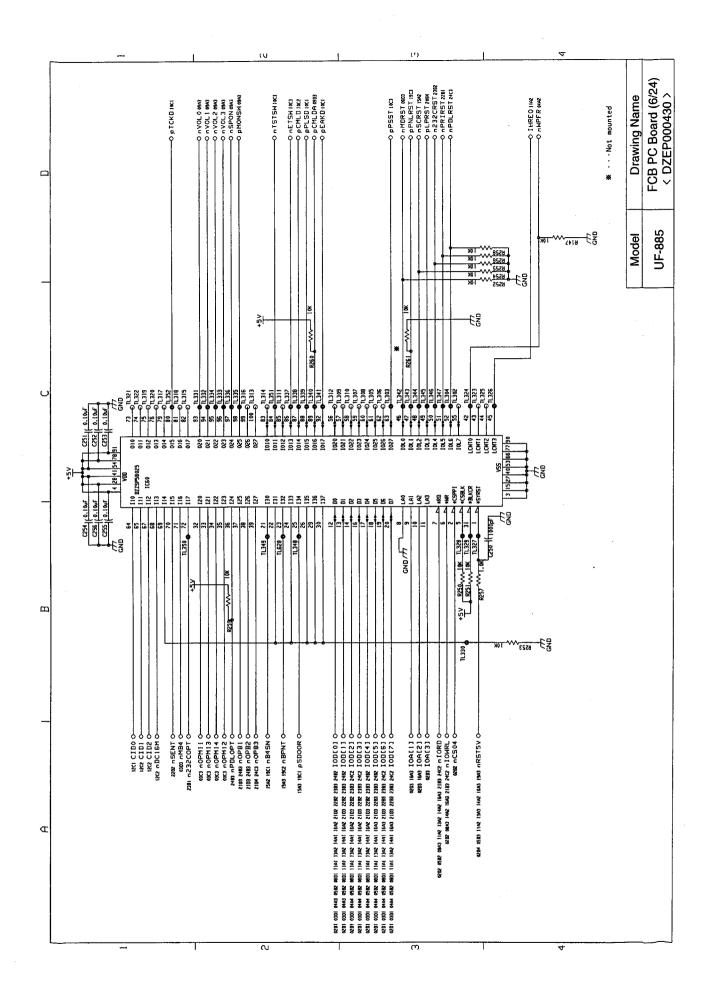


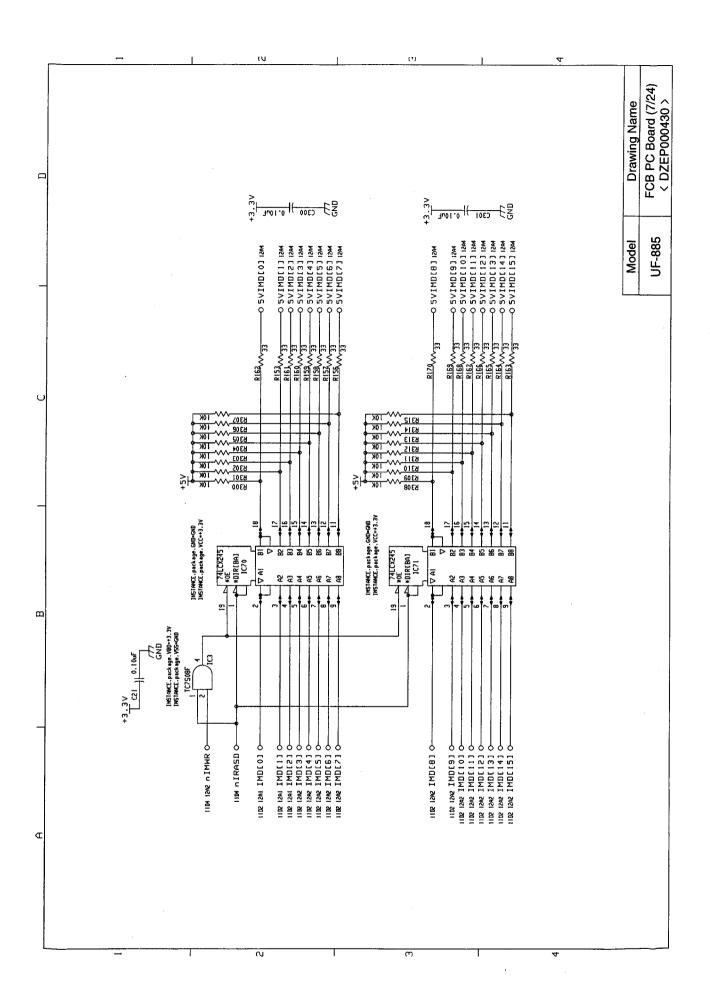


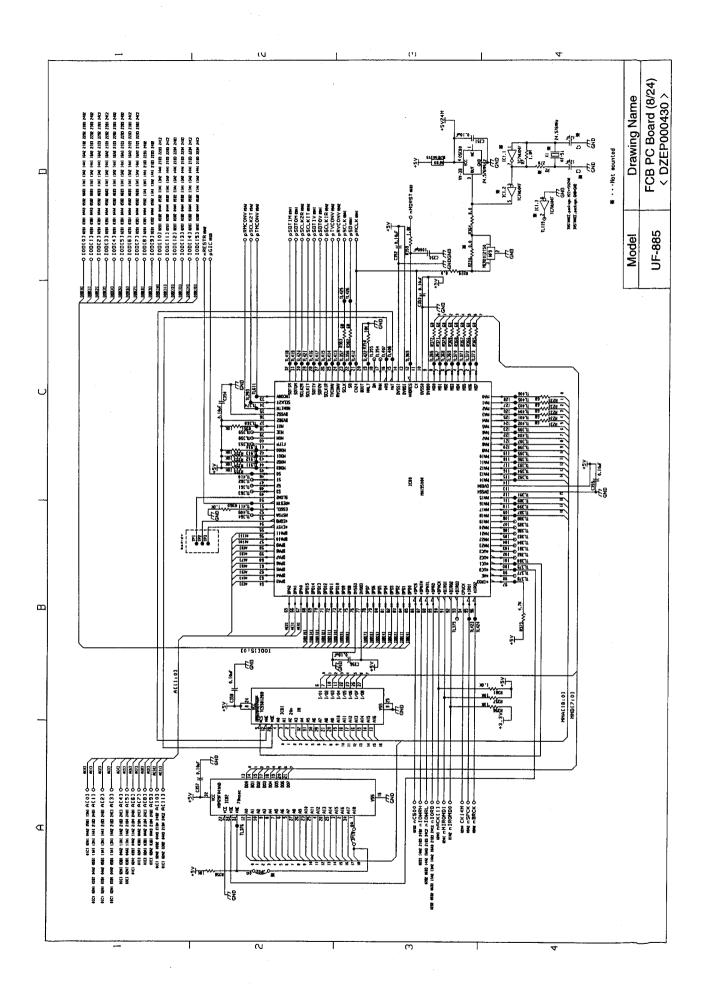


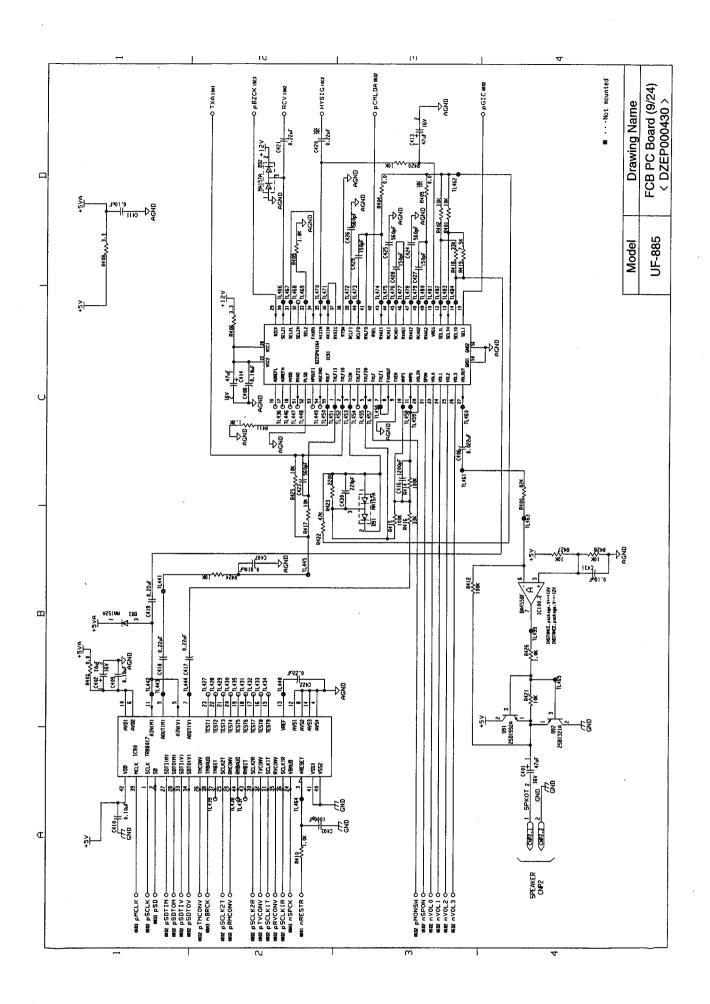


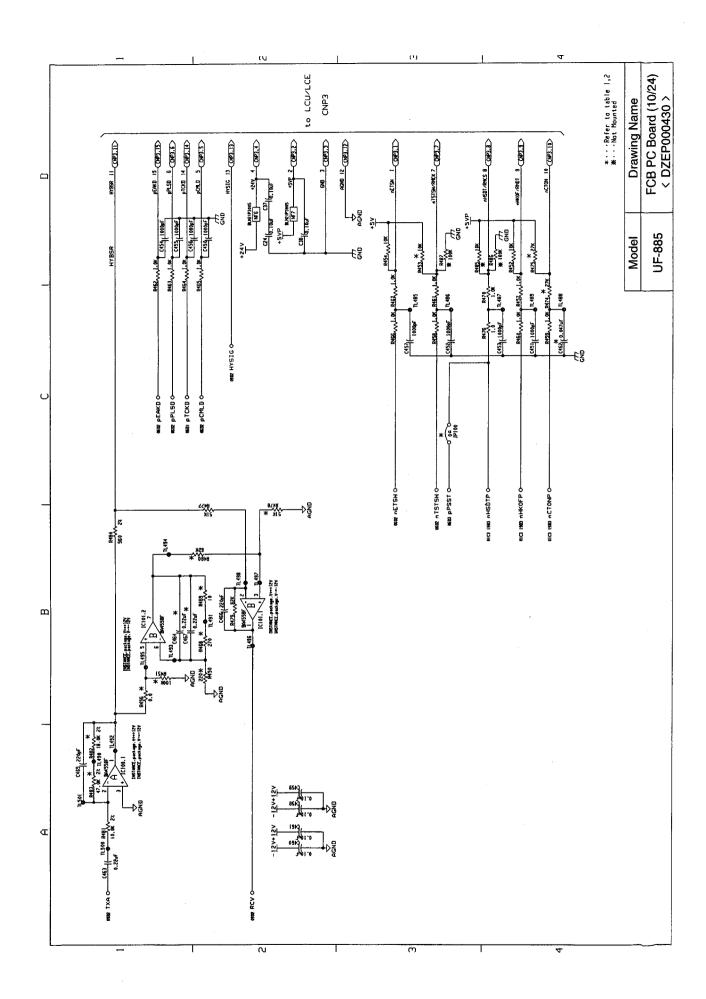


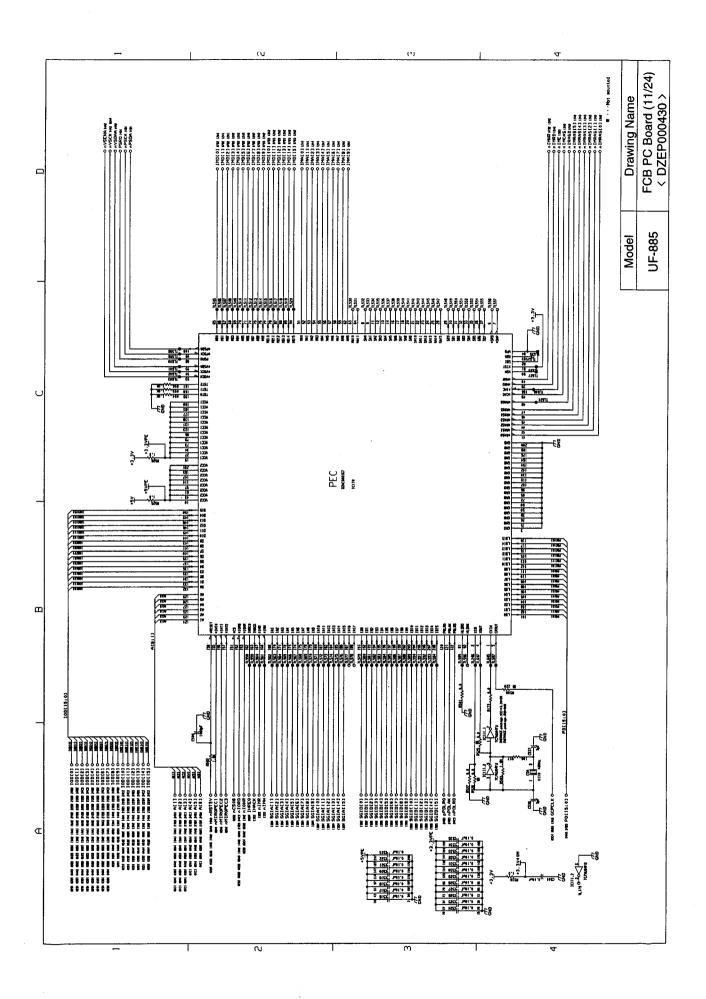


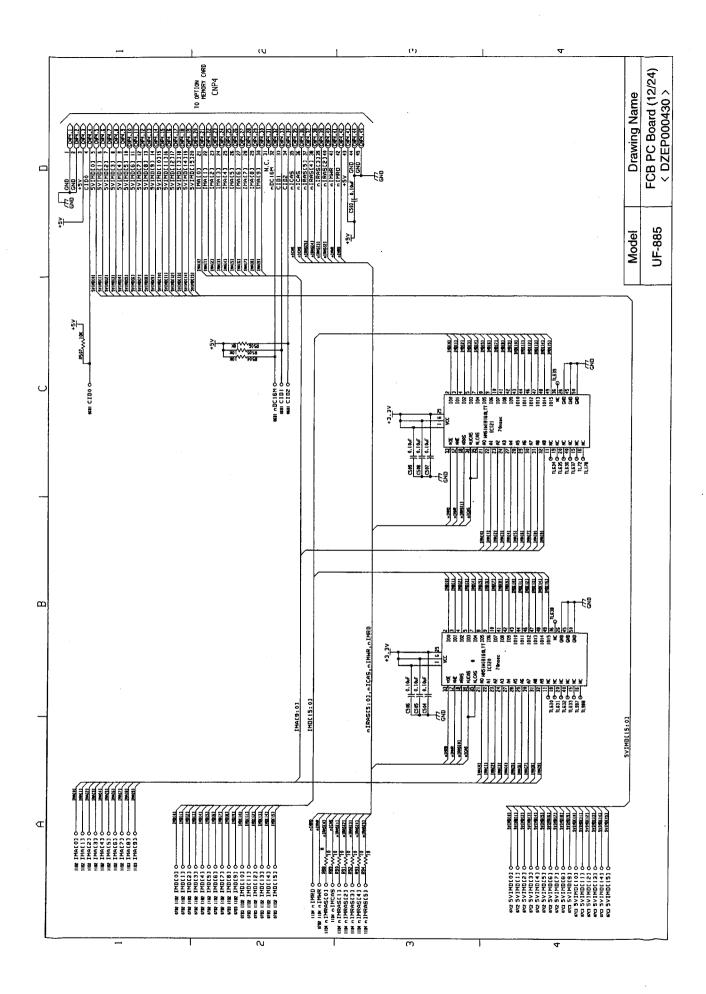


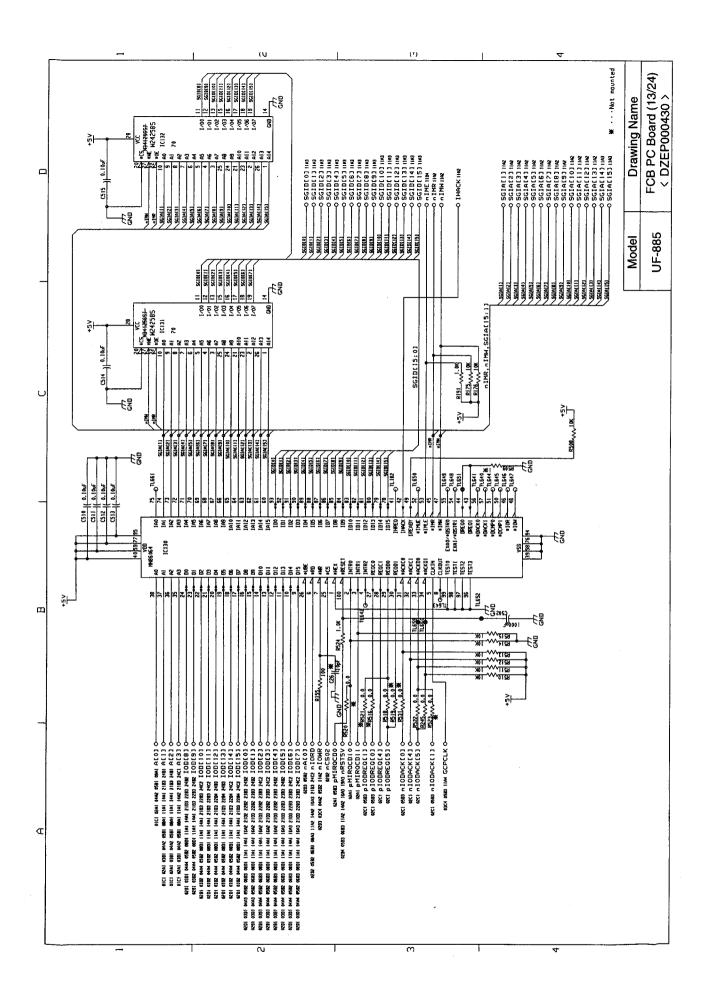


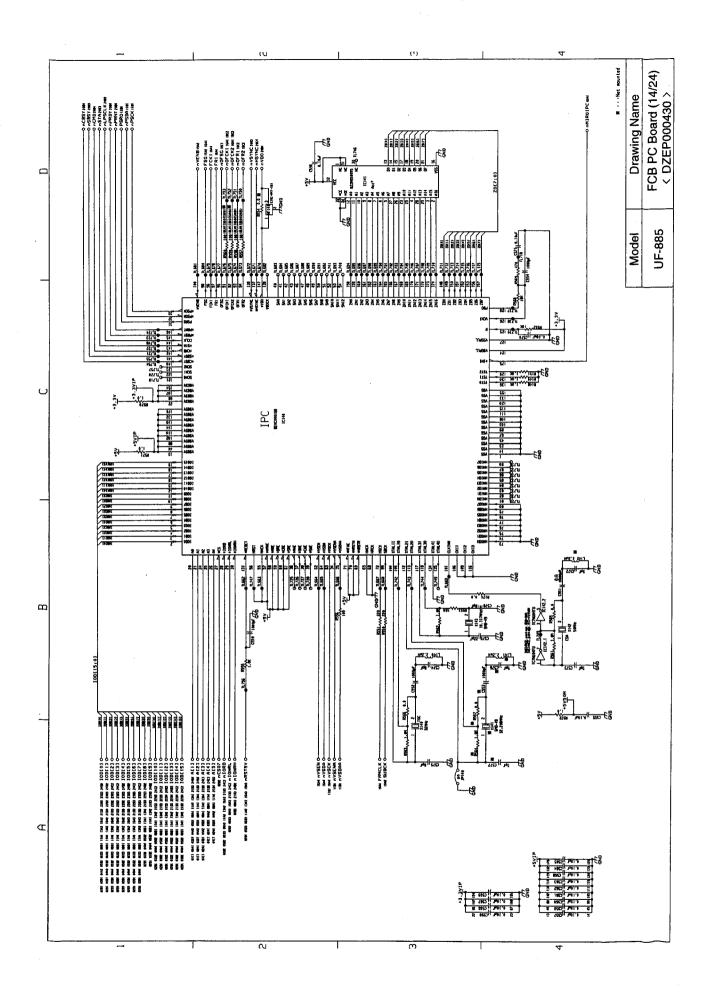


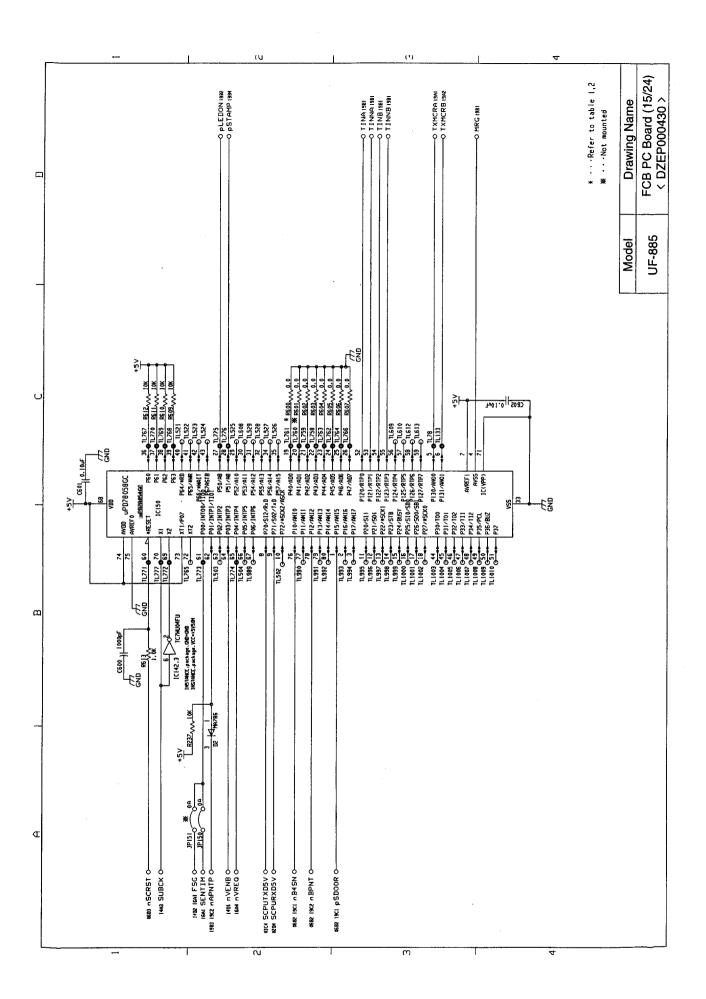


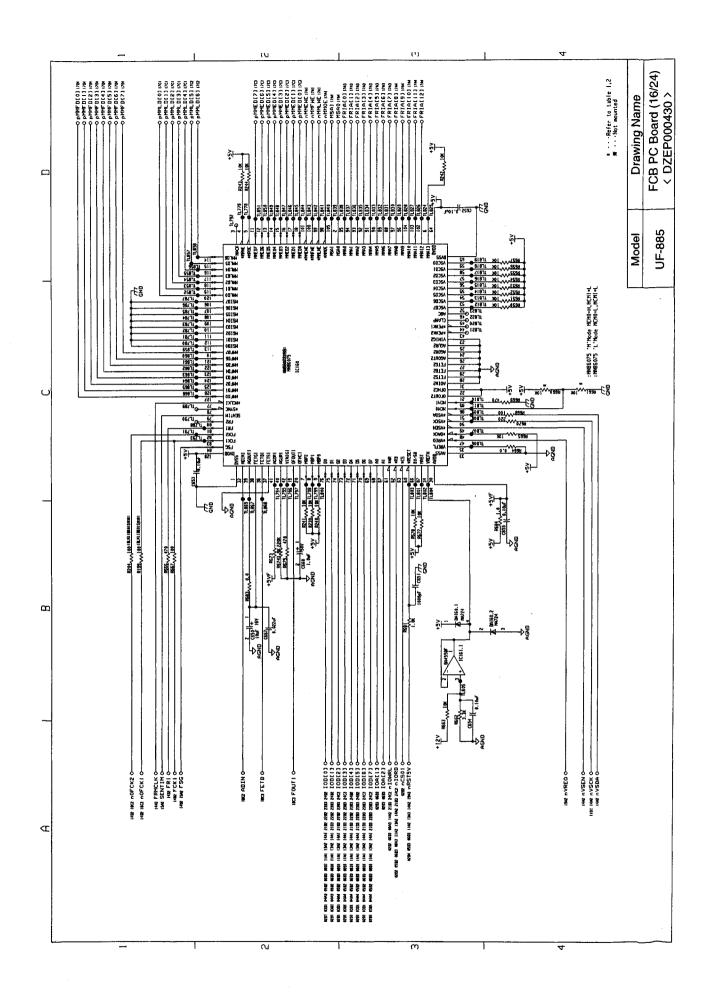


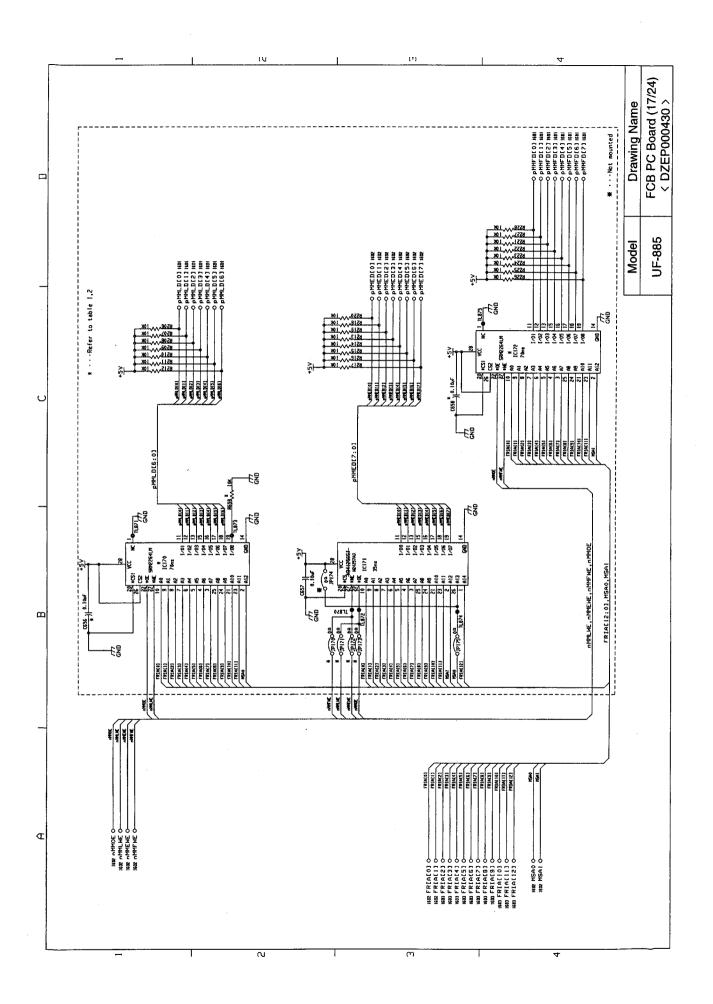


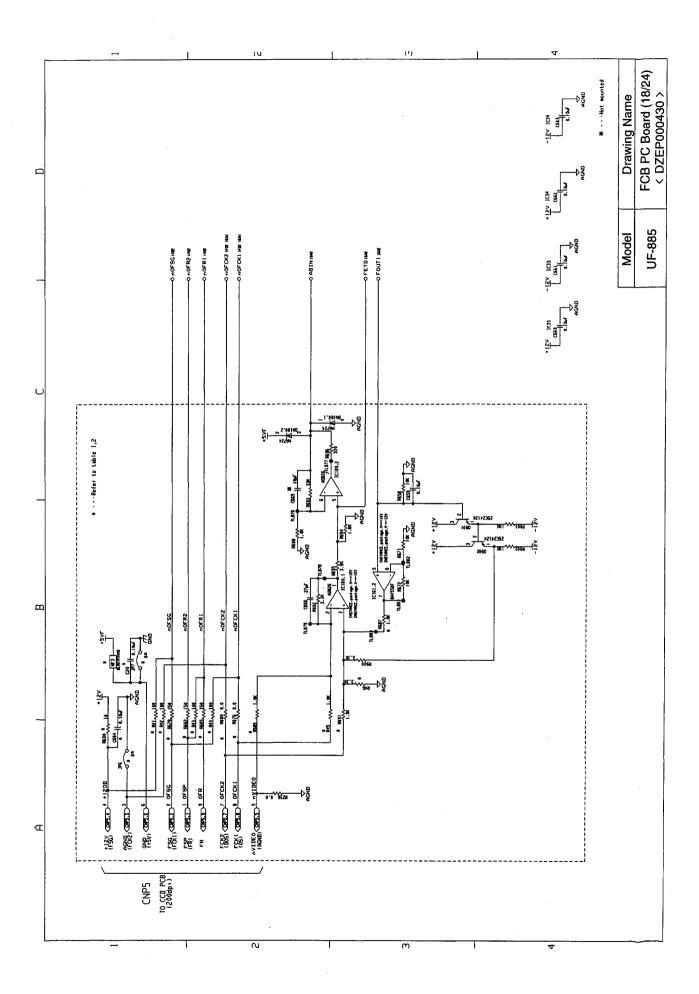


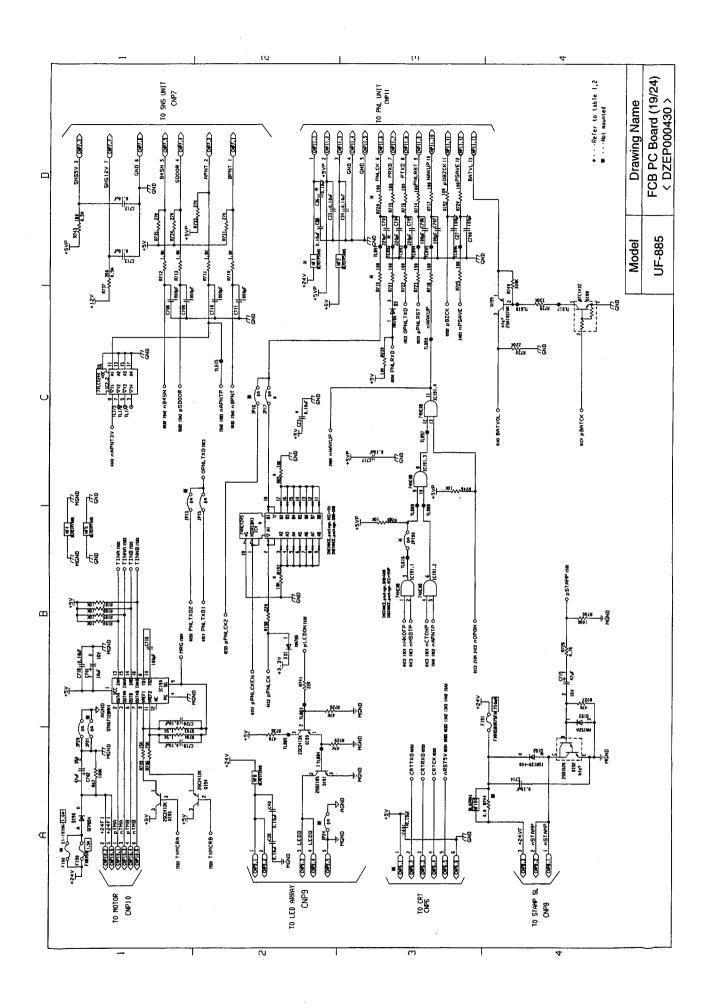


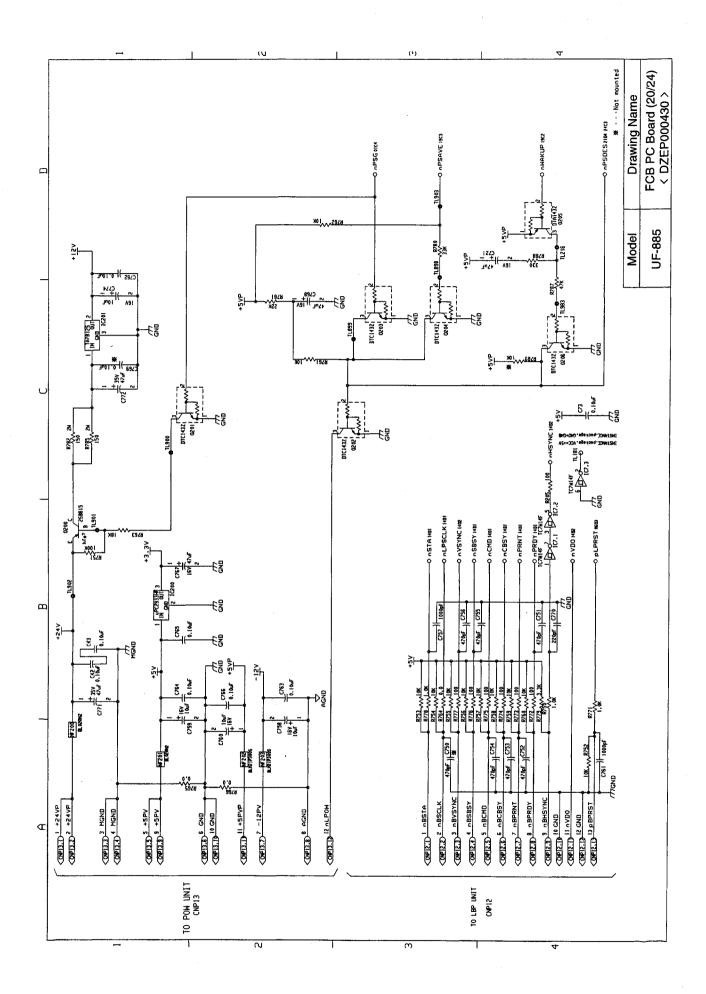


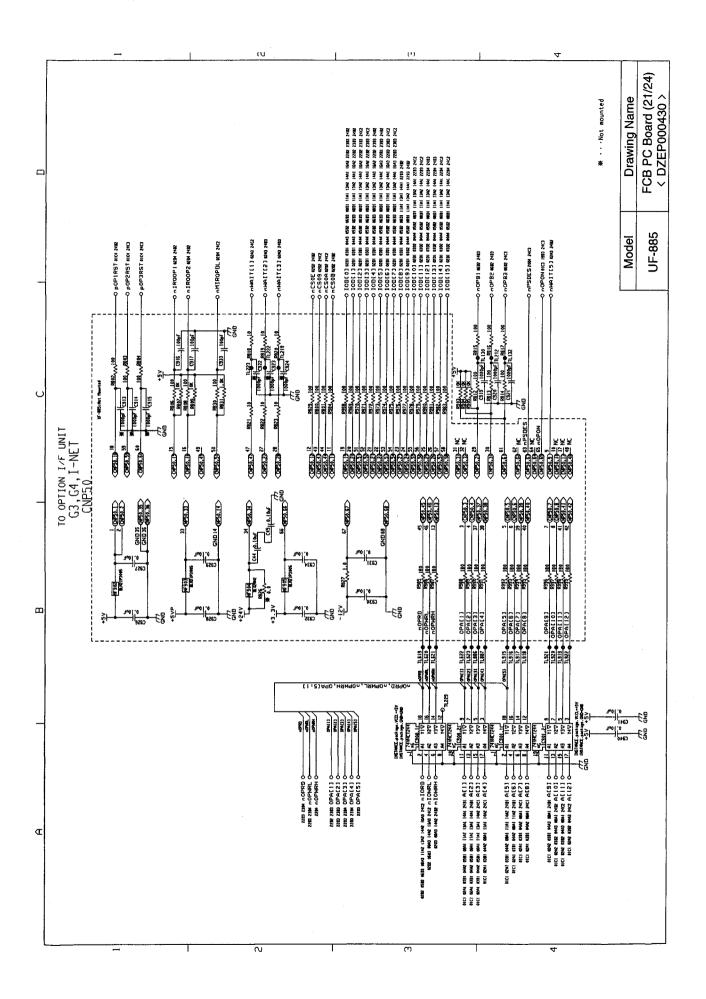


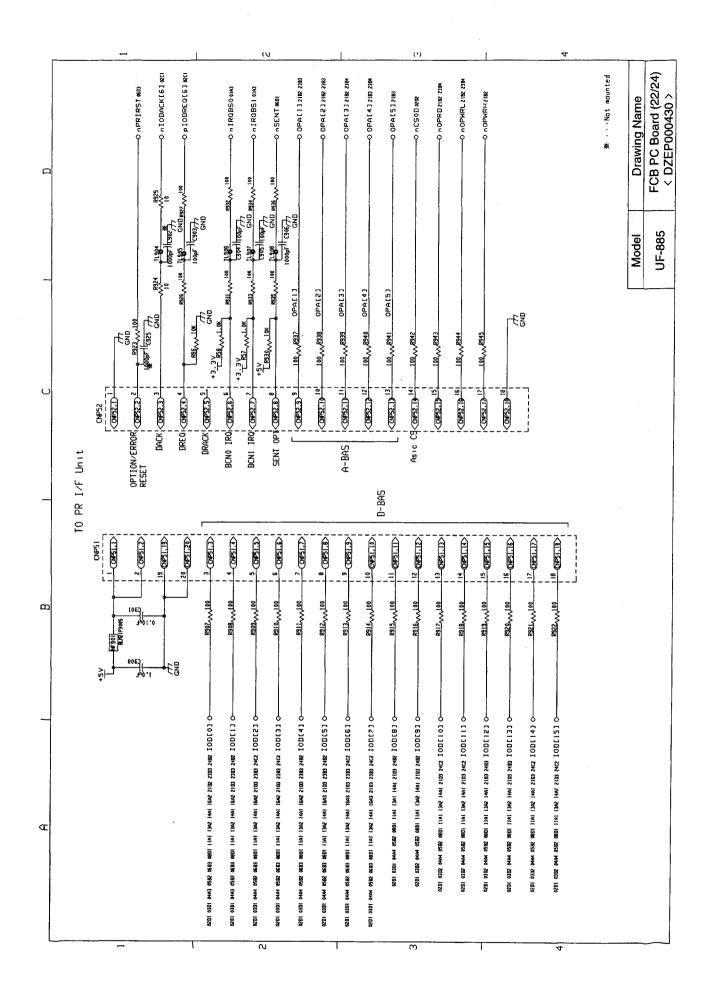


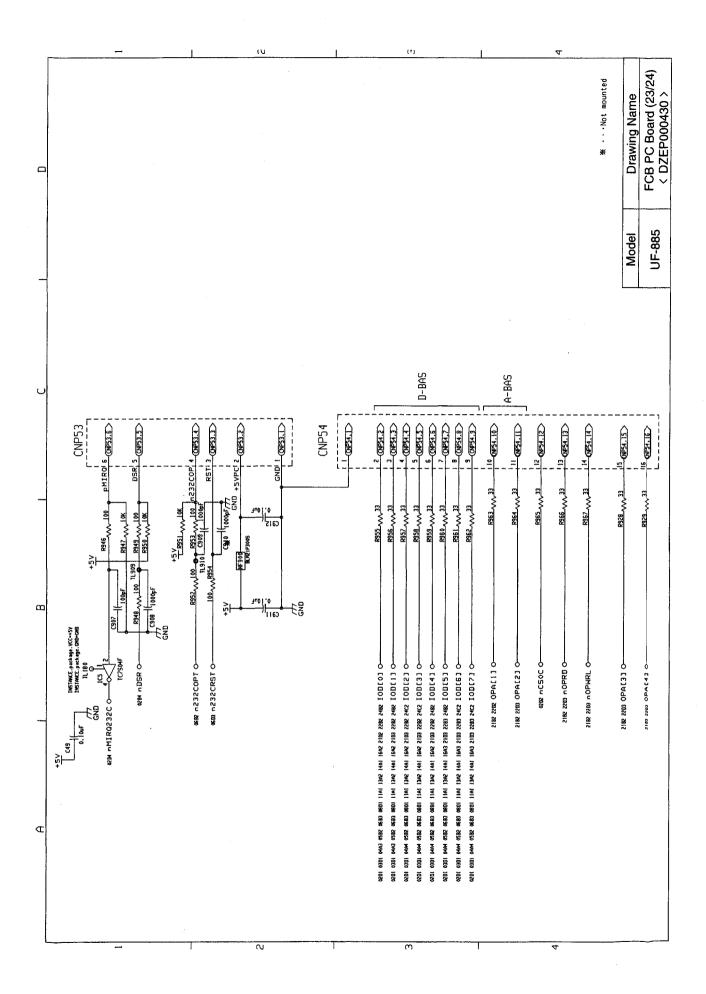


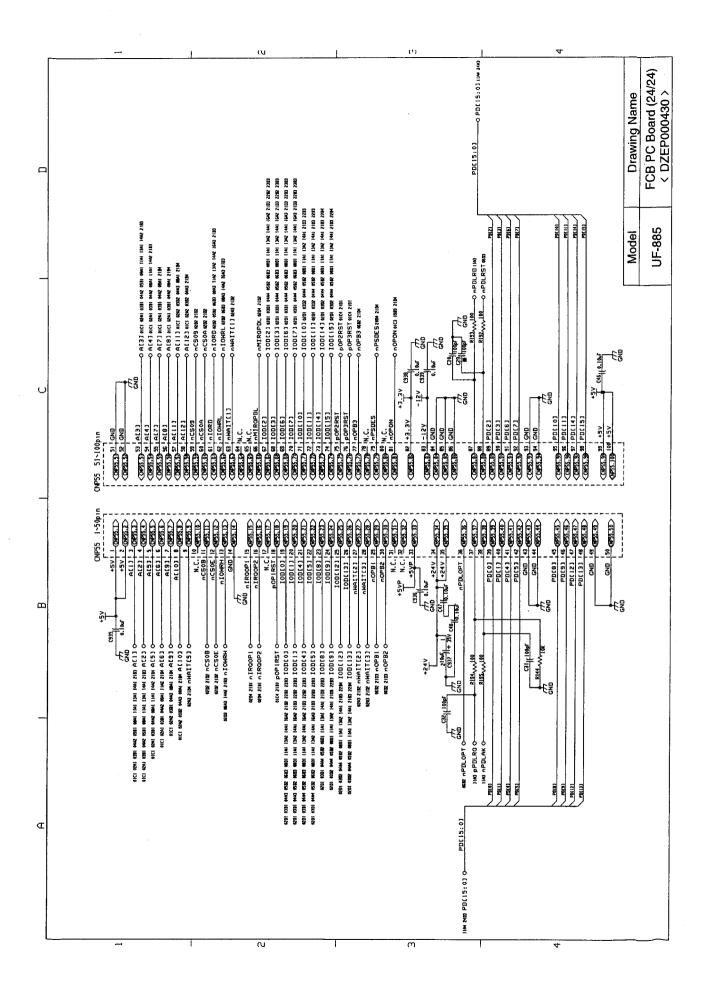




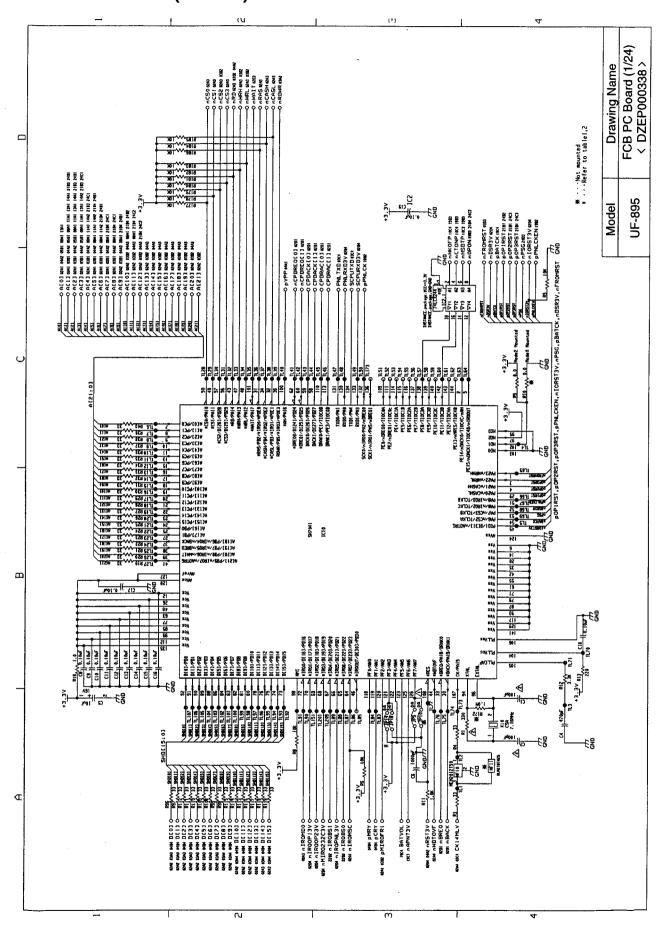


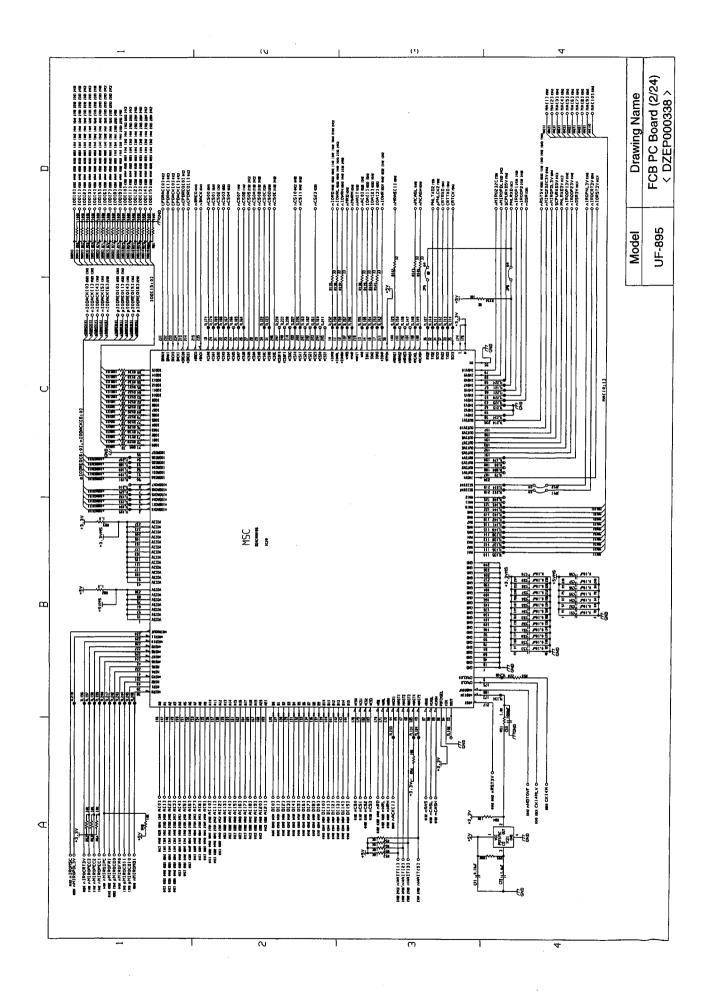


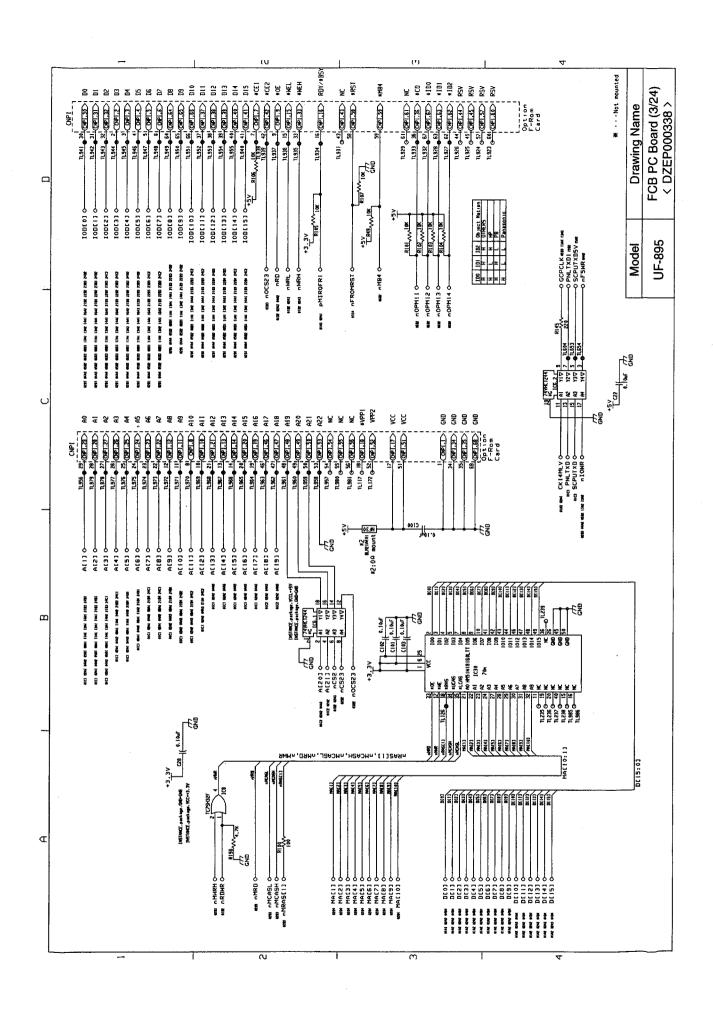


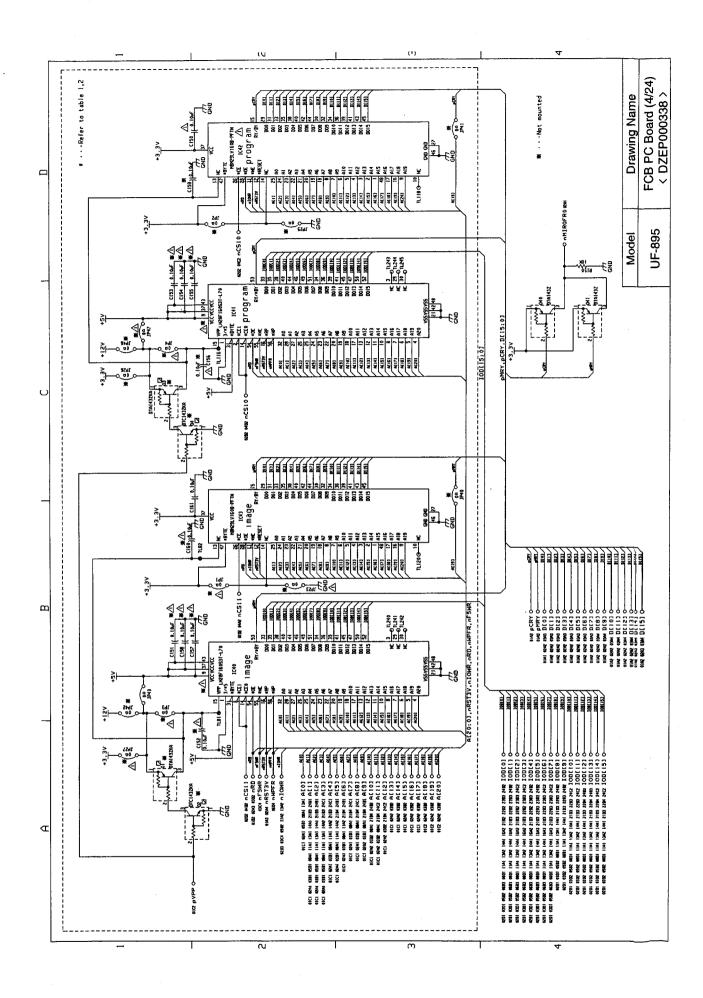


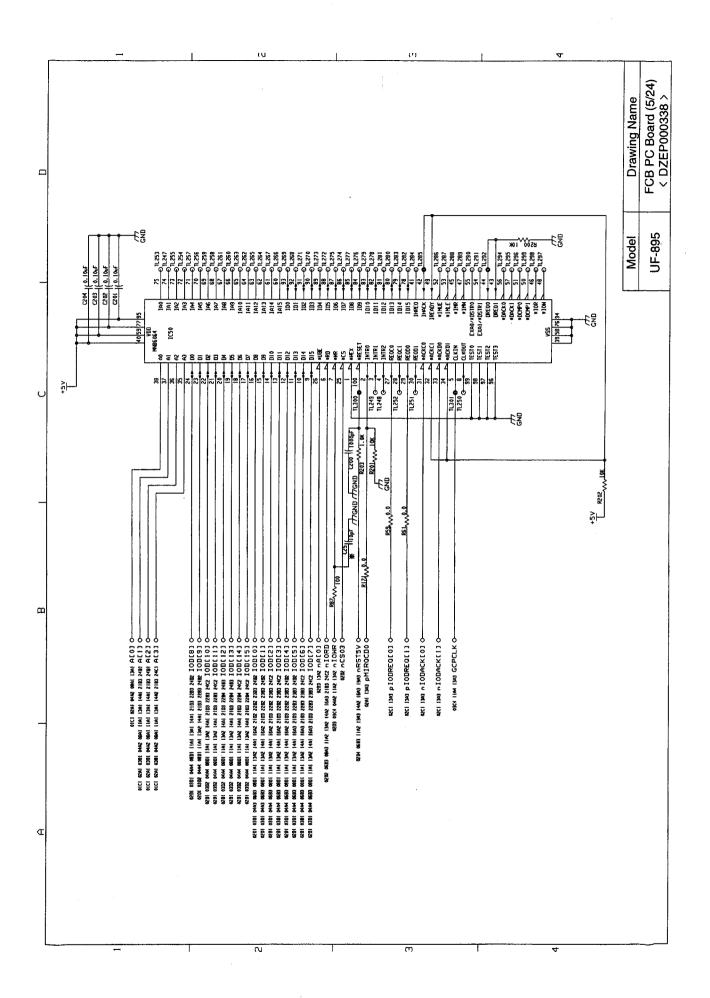
10.2 FCB PC Board (UF-895)

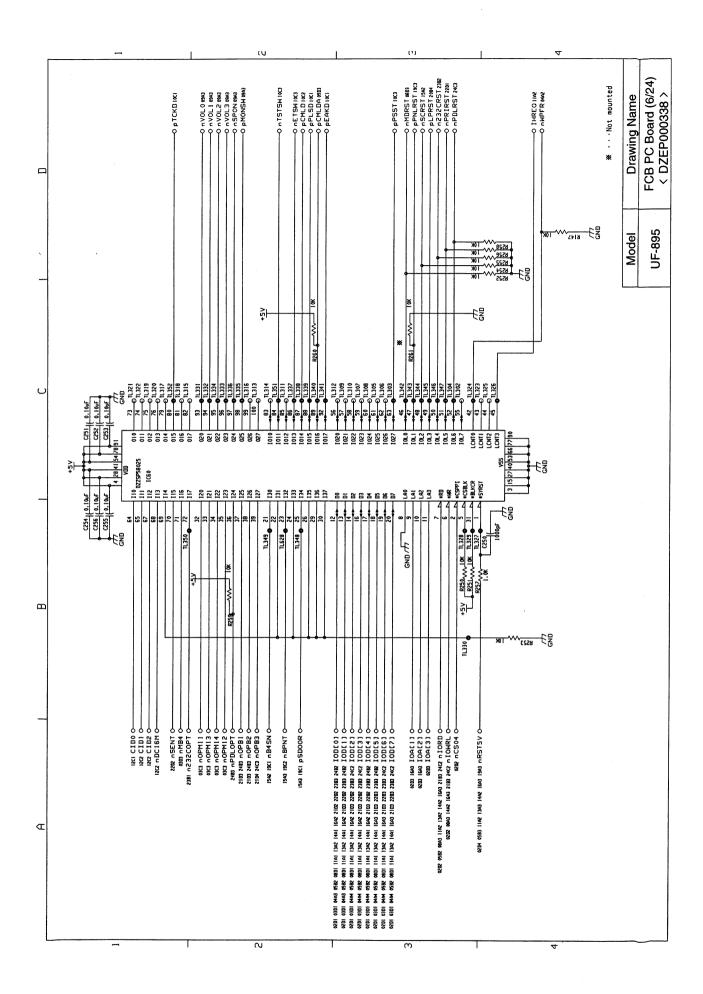


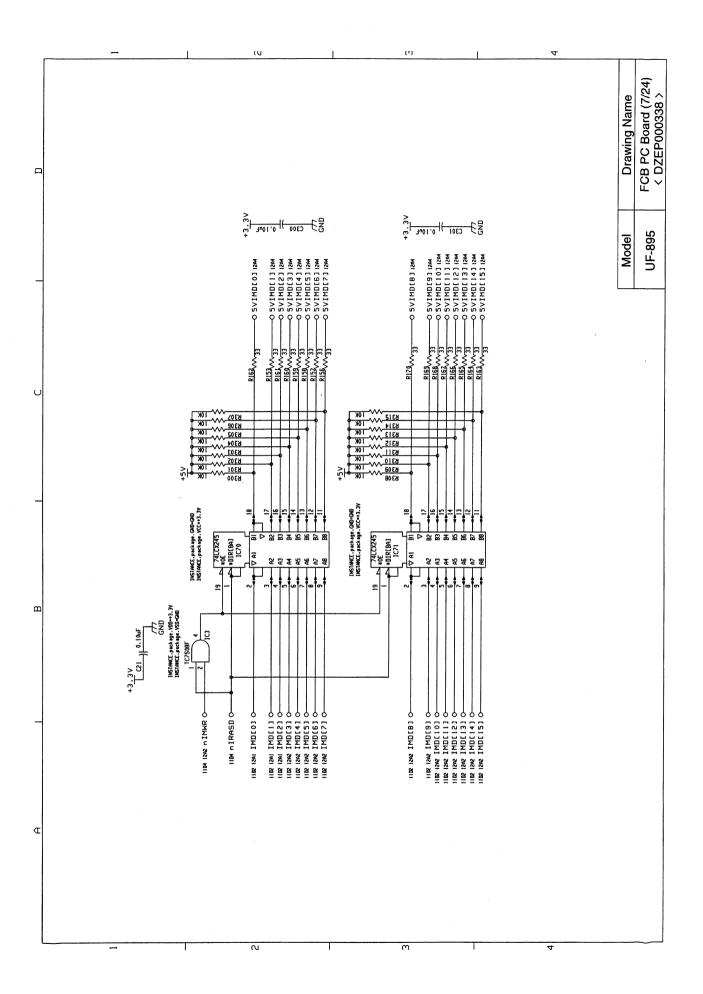


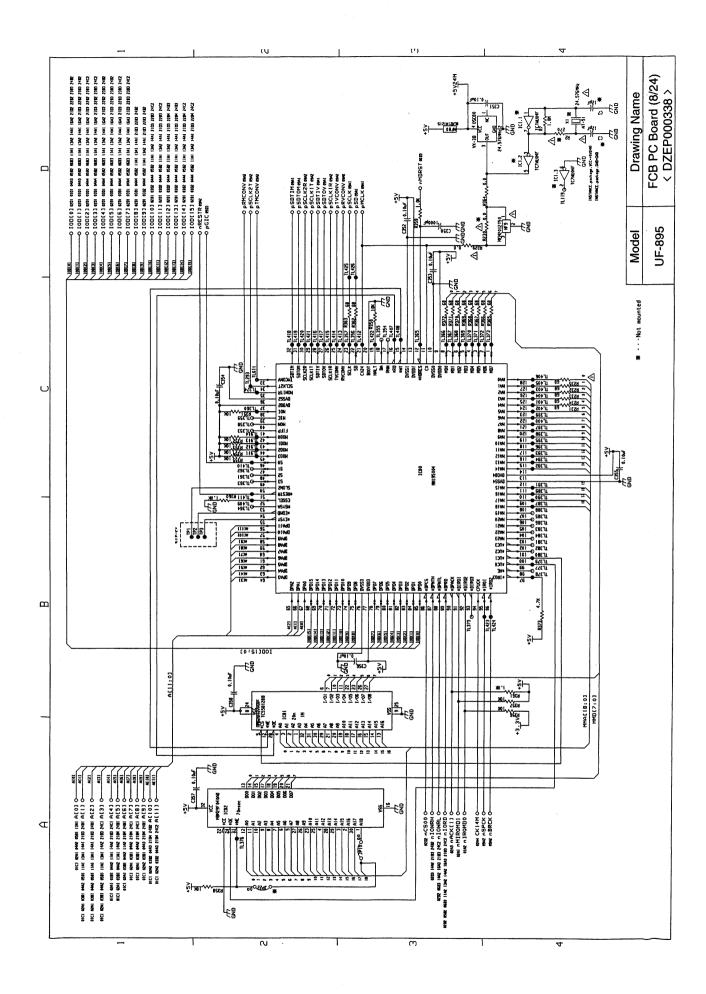


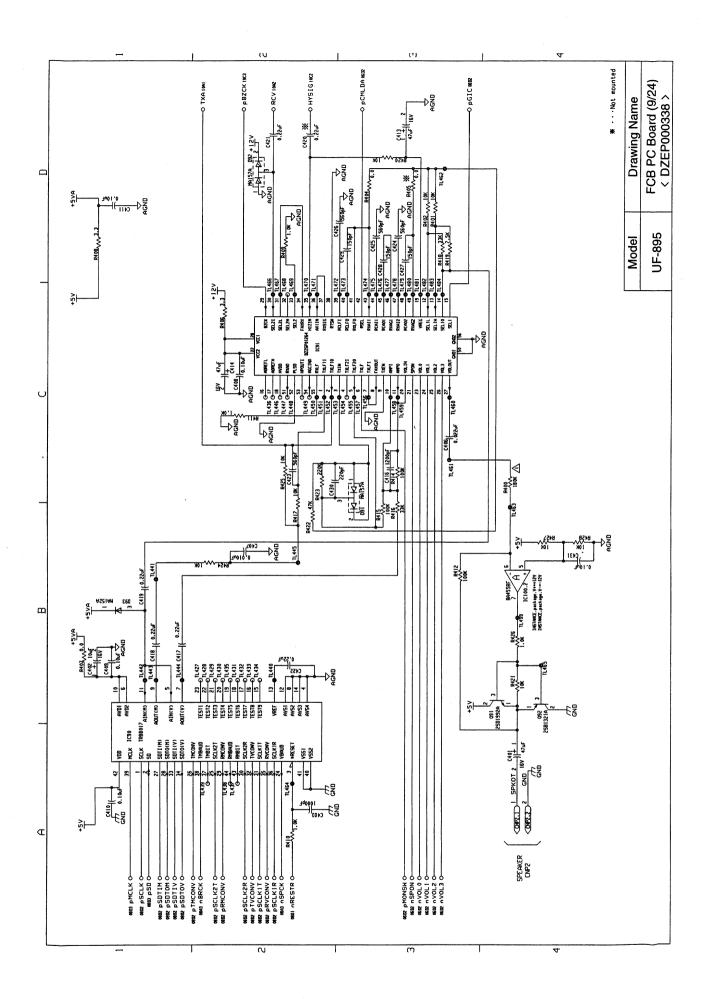


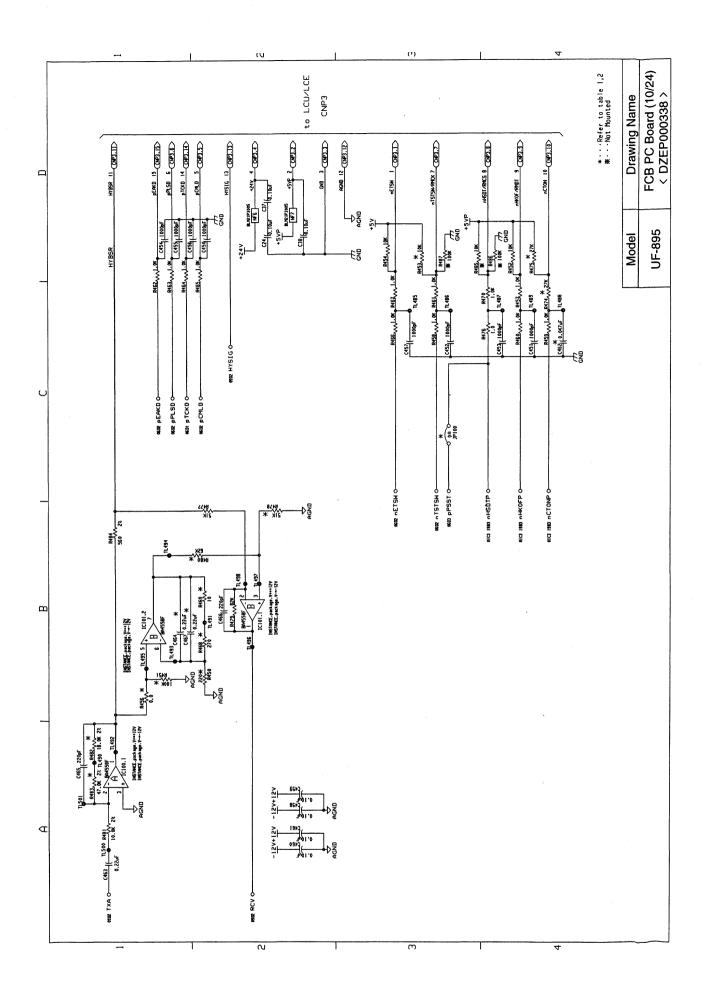


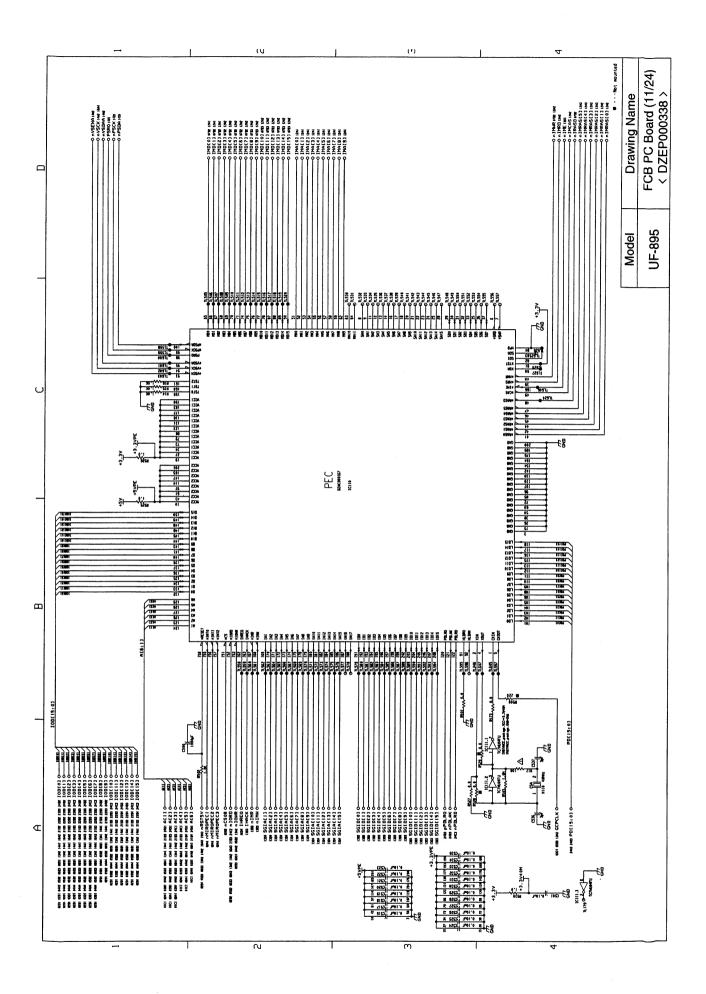


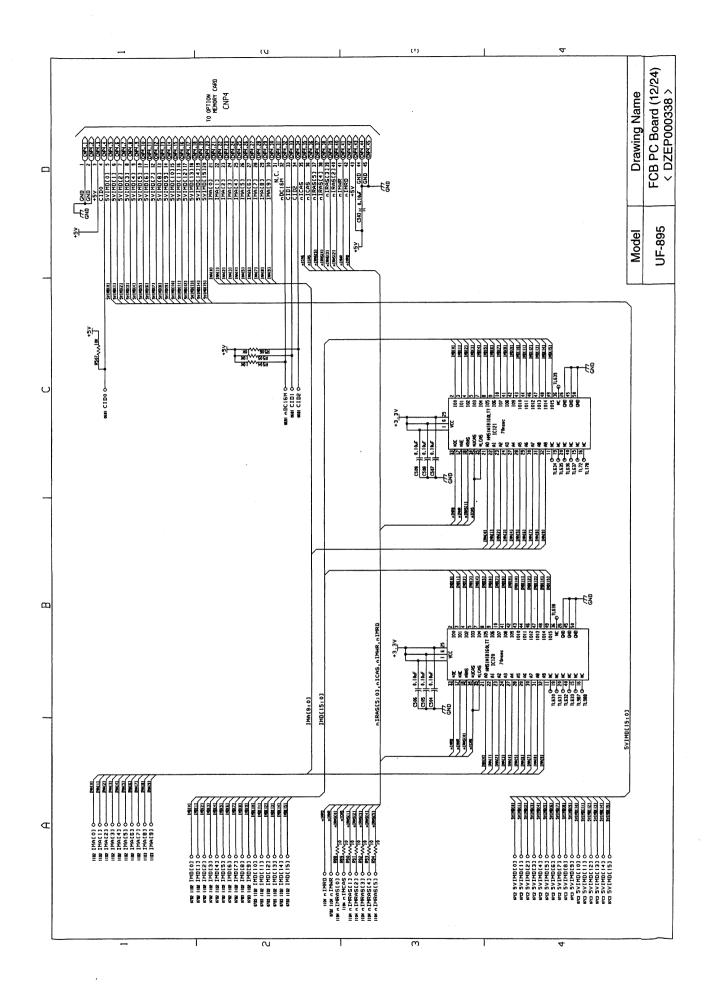


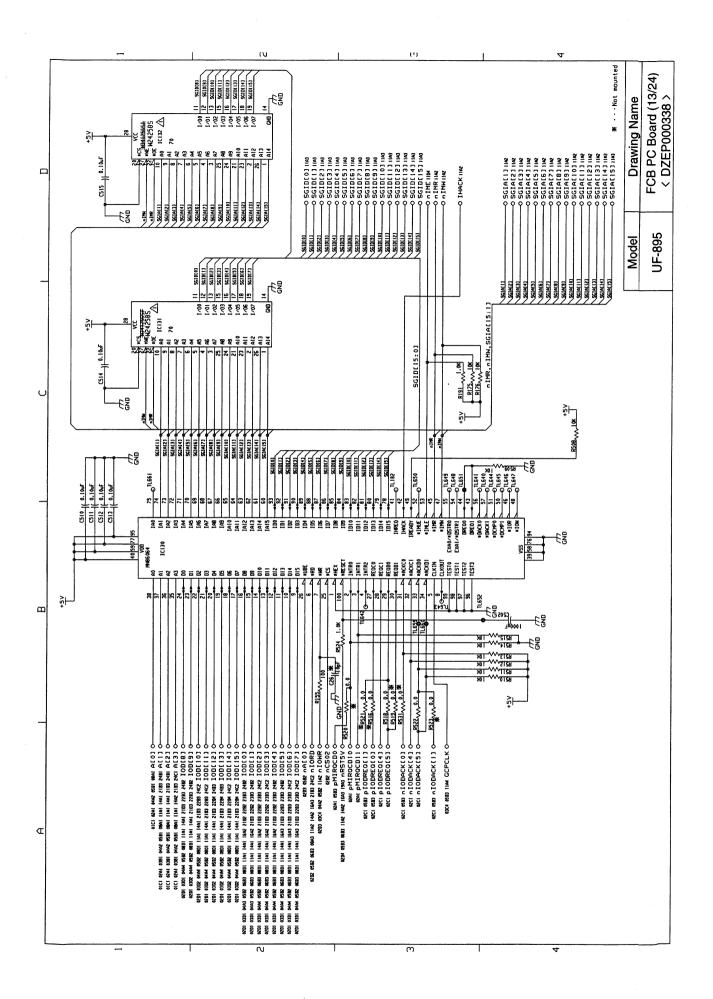


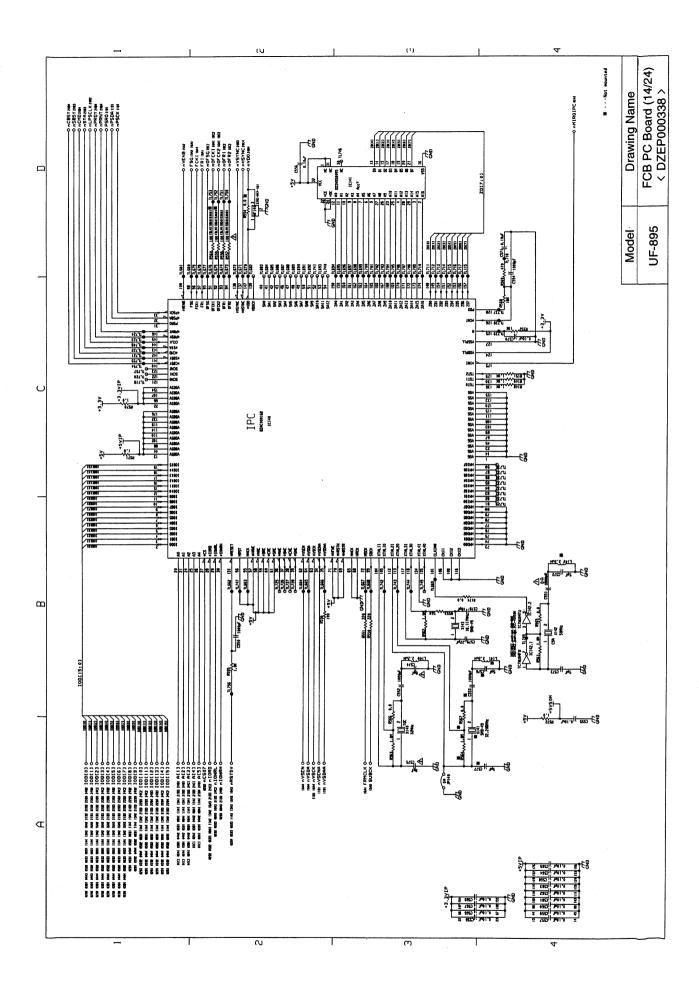


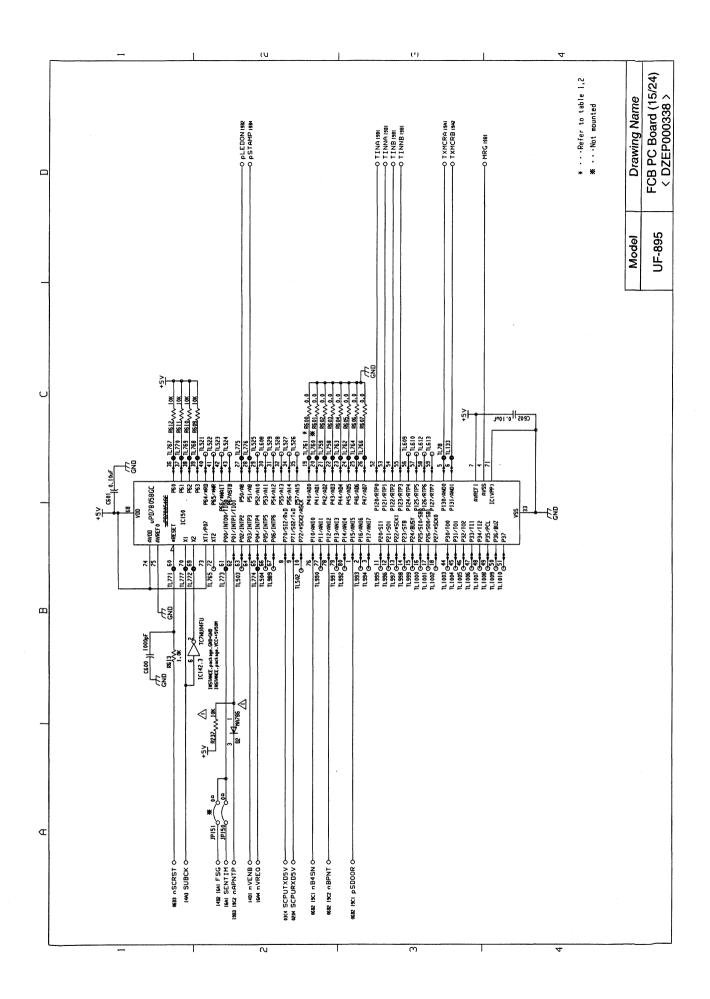


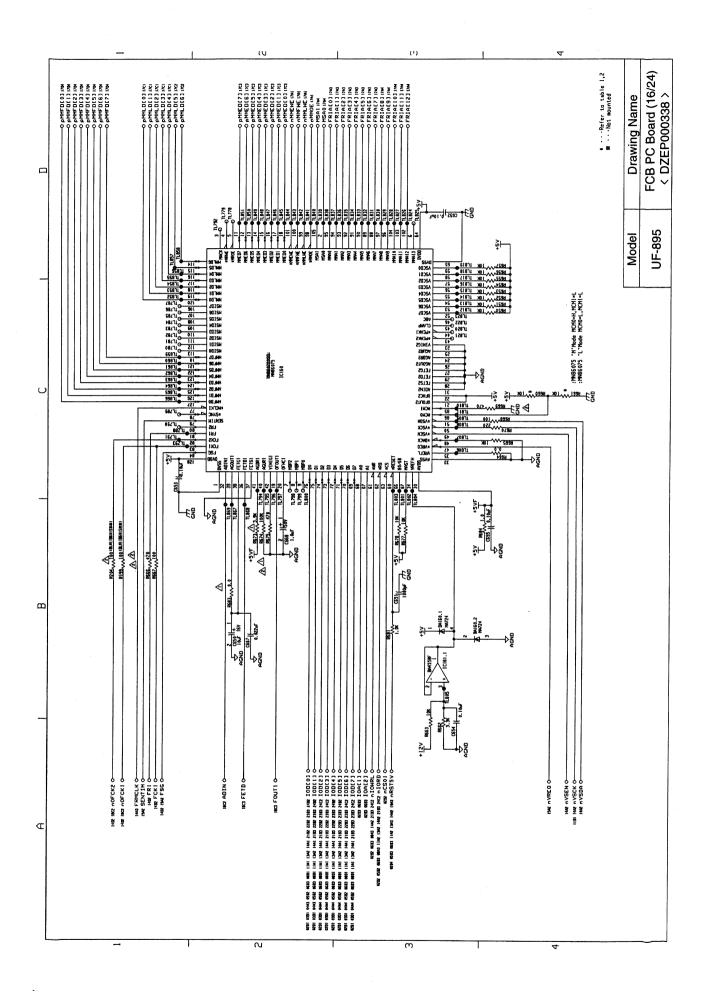


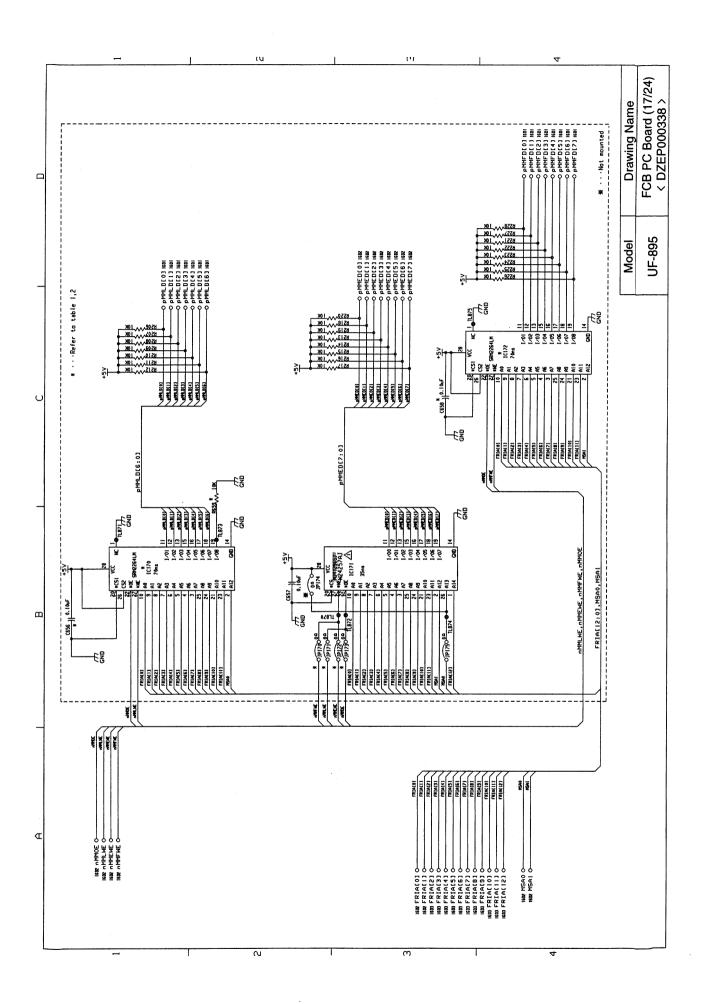


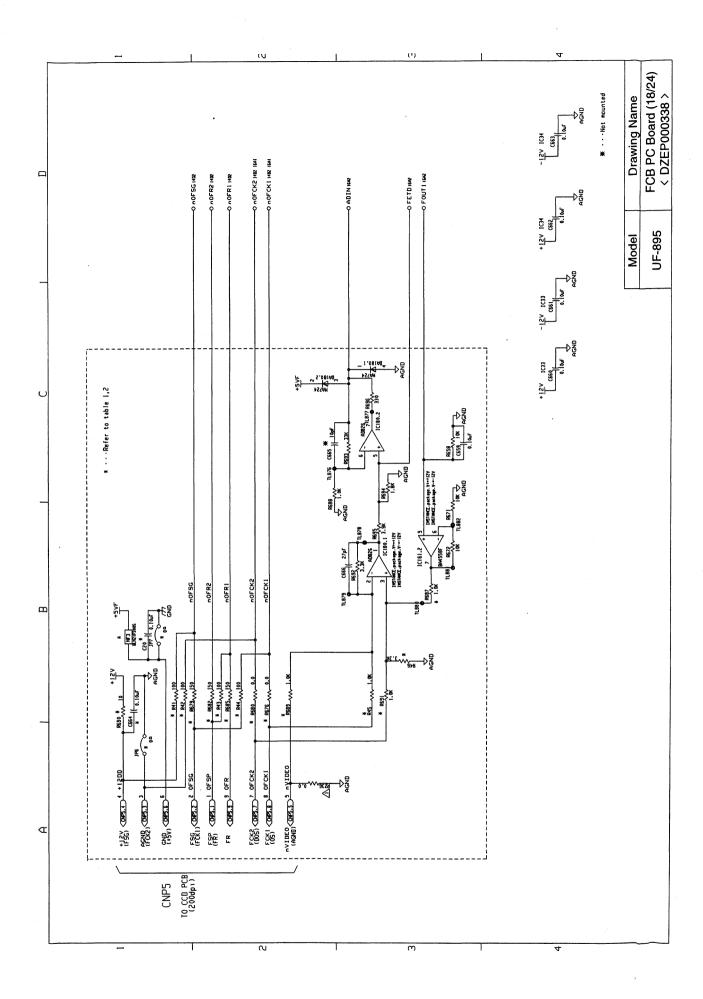


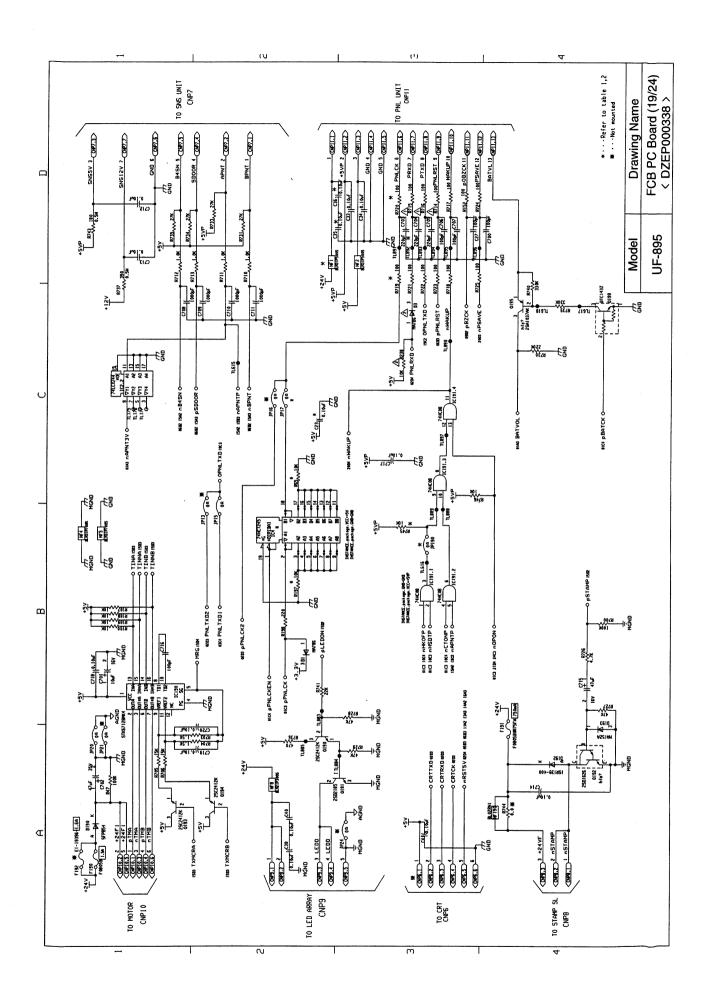


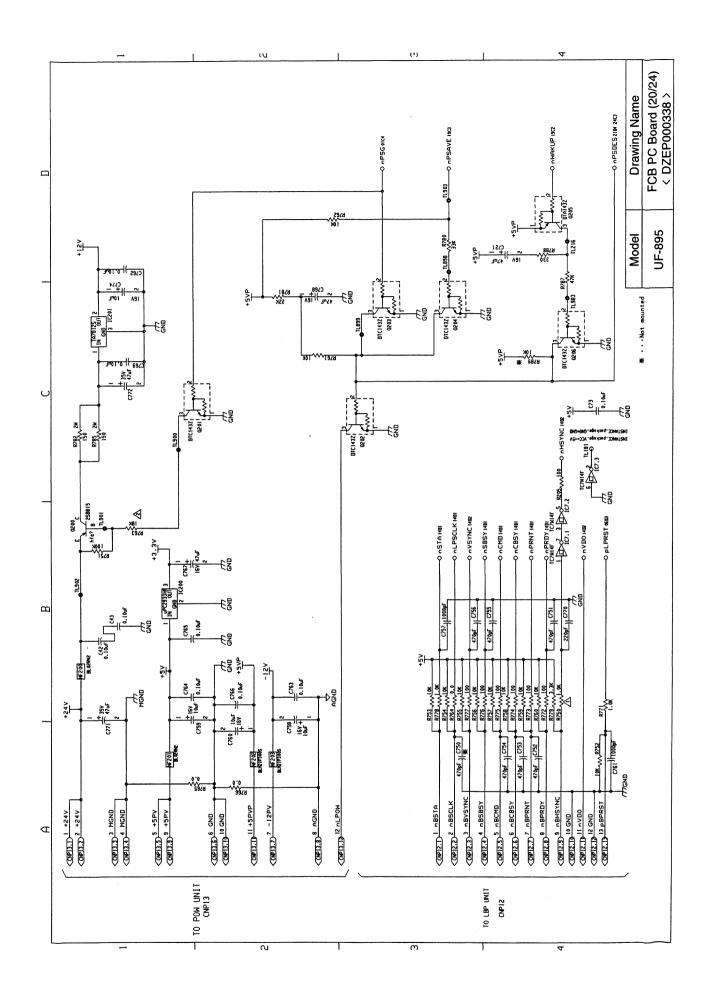


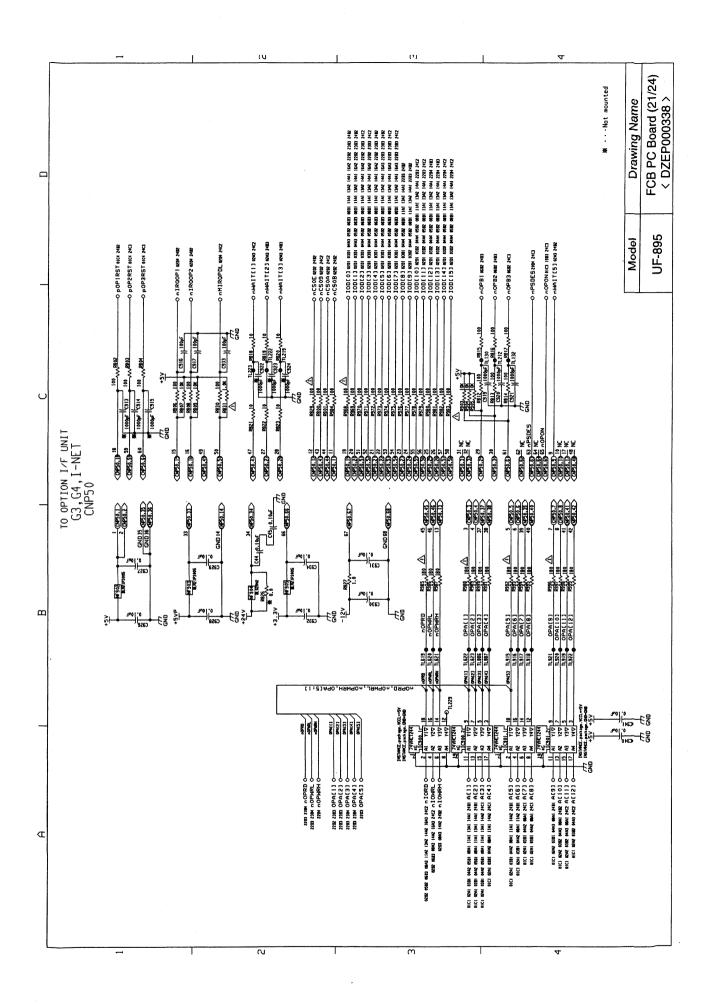


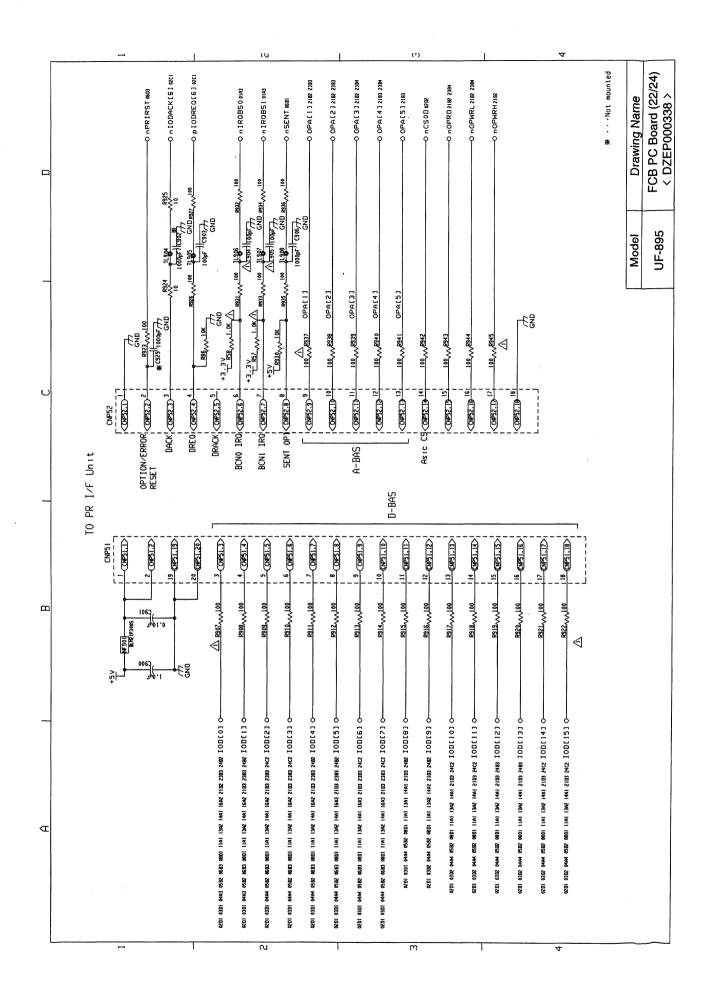


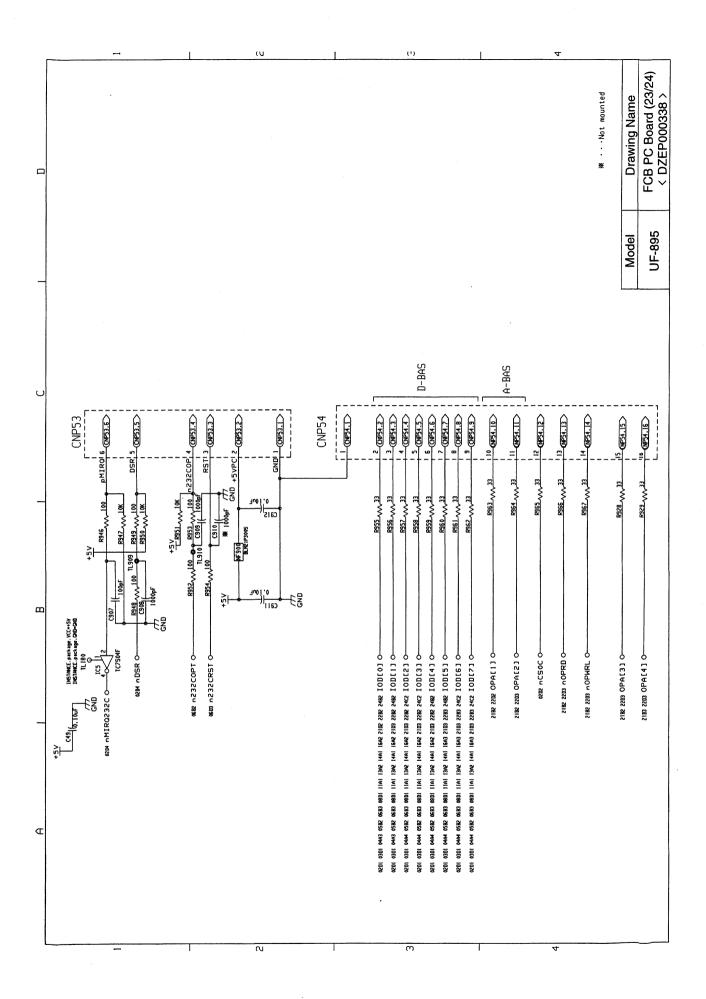


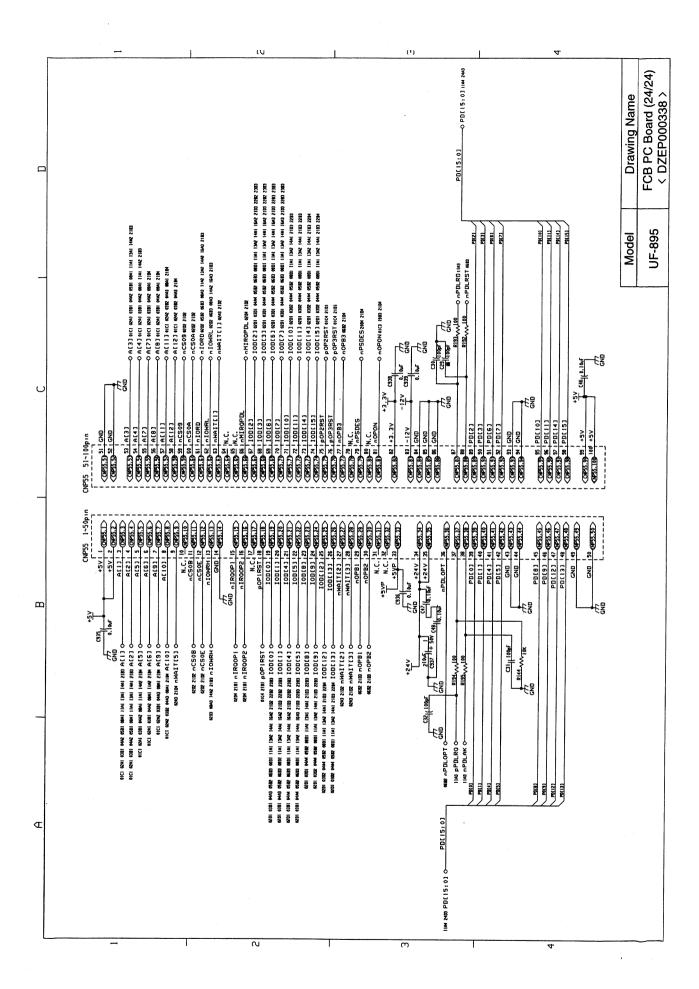




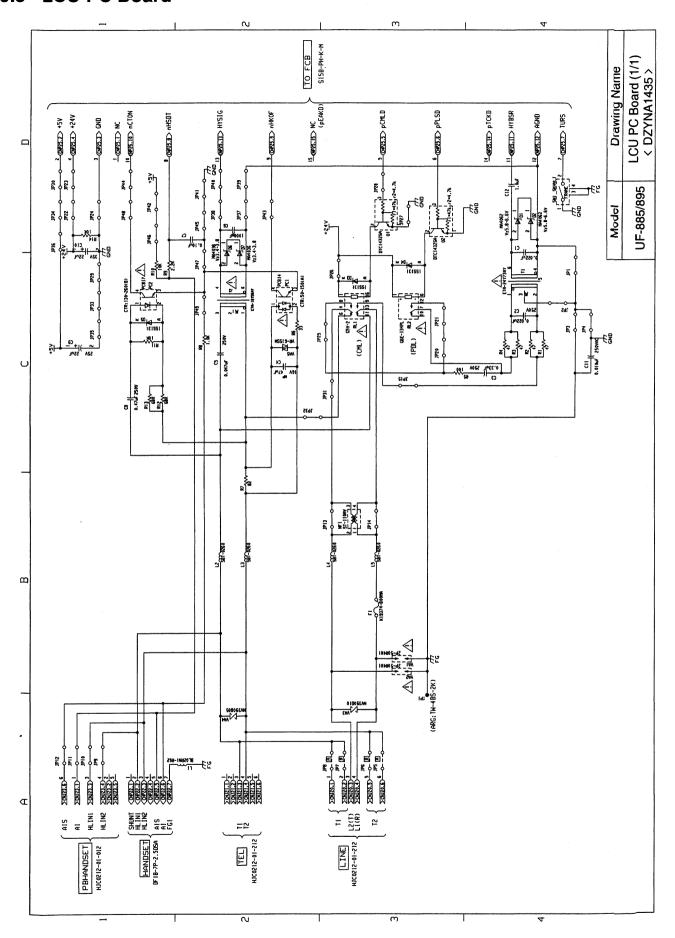




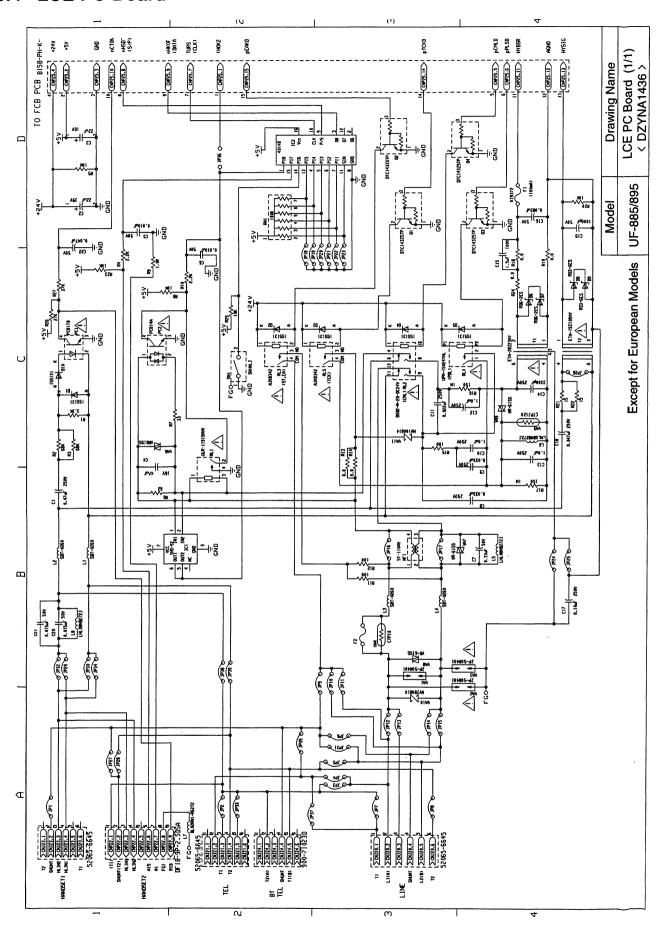


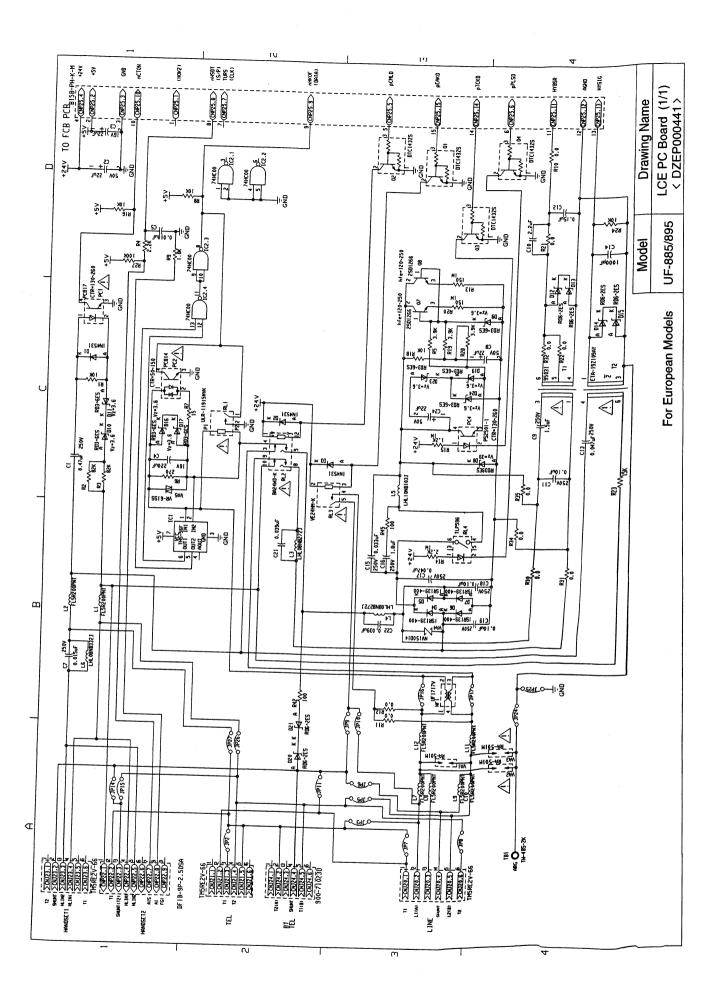


10.3 LCU PC Board

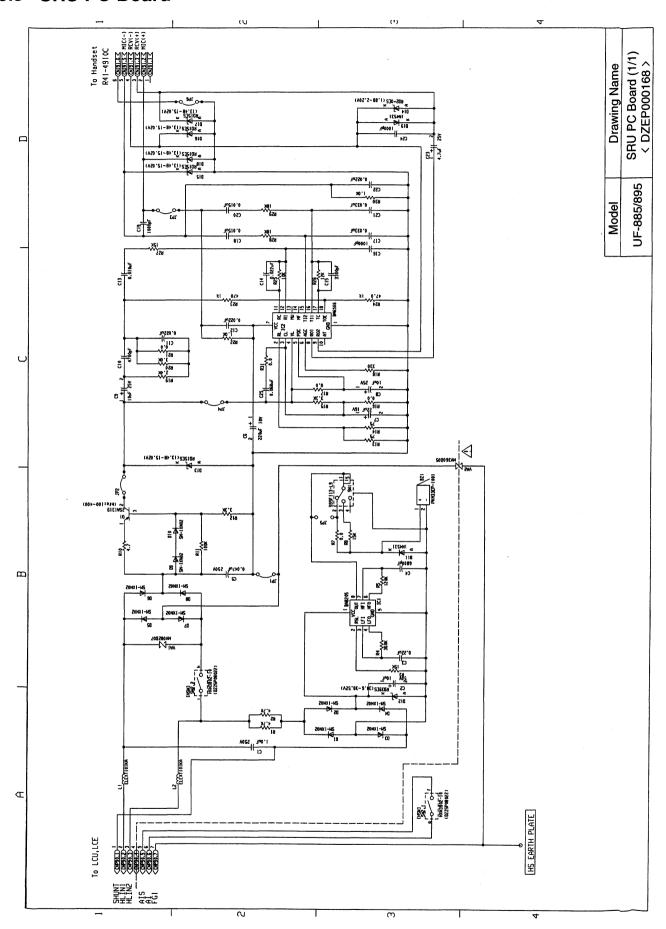


10.4 LCE PC Board

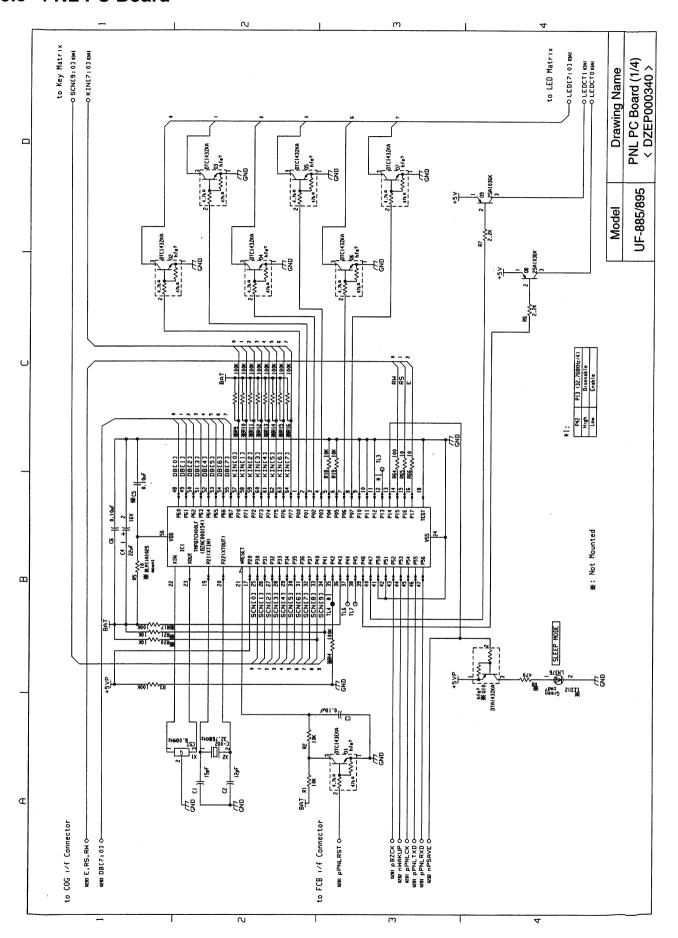


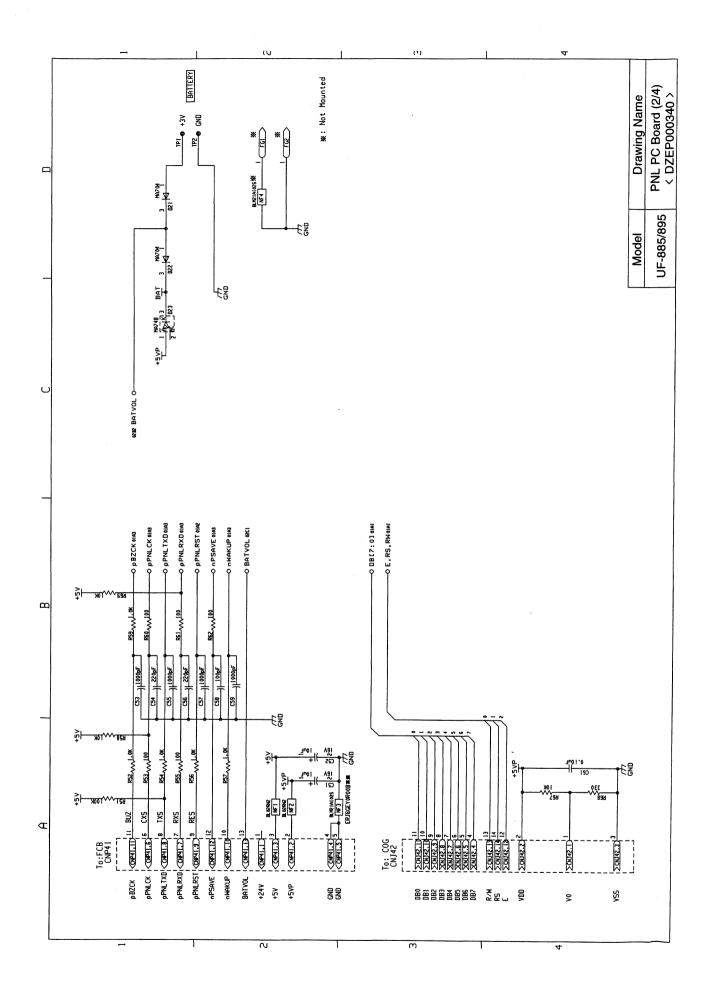


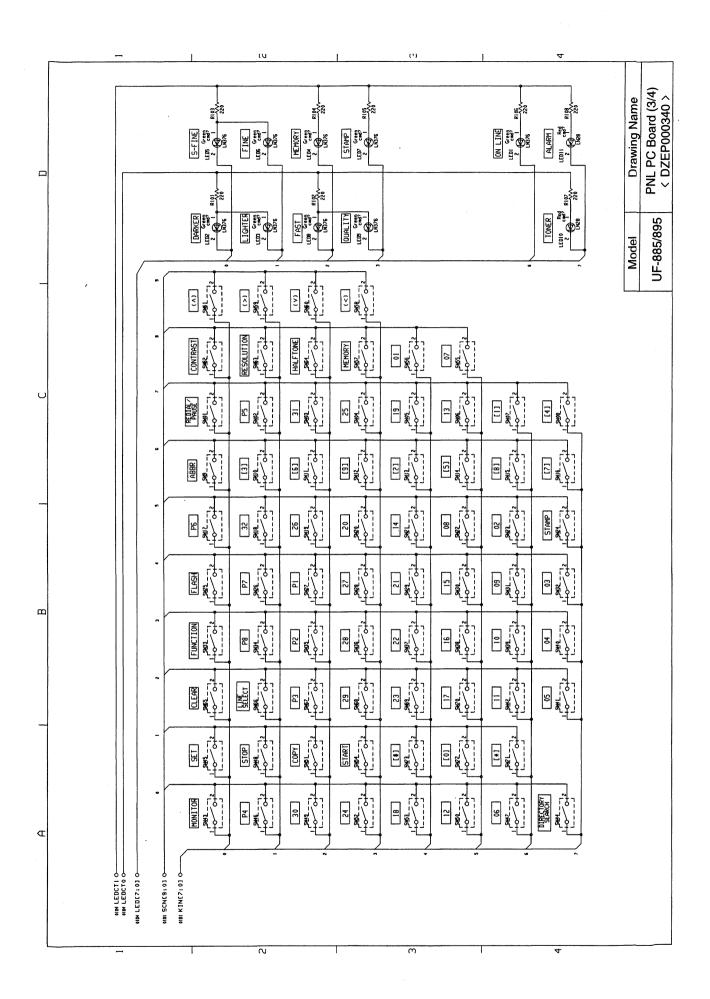
10.5 SRU PC Board

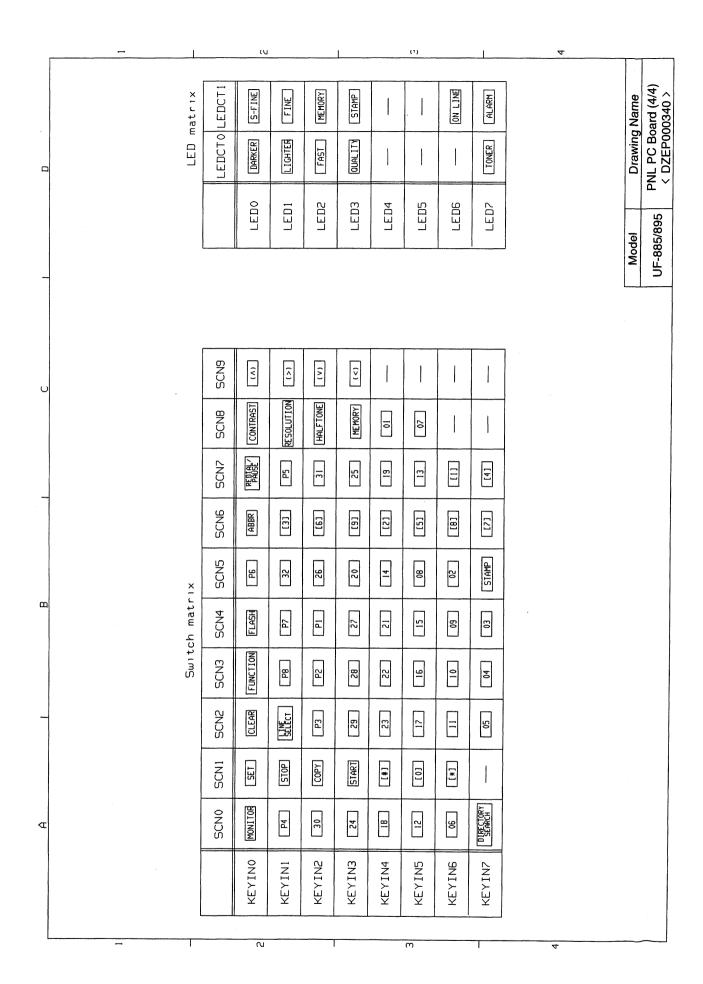


10.6 PNL PC Board

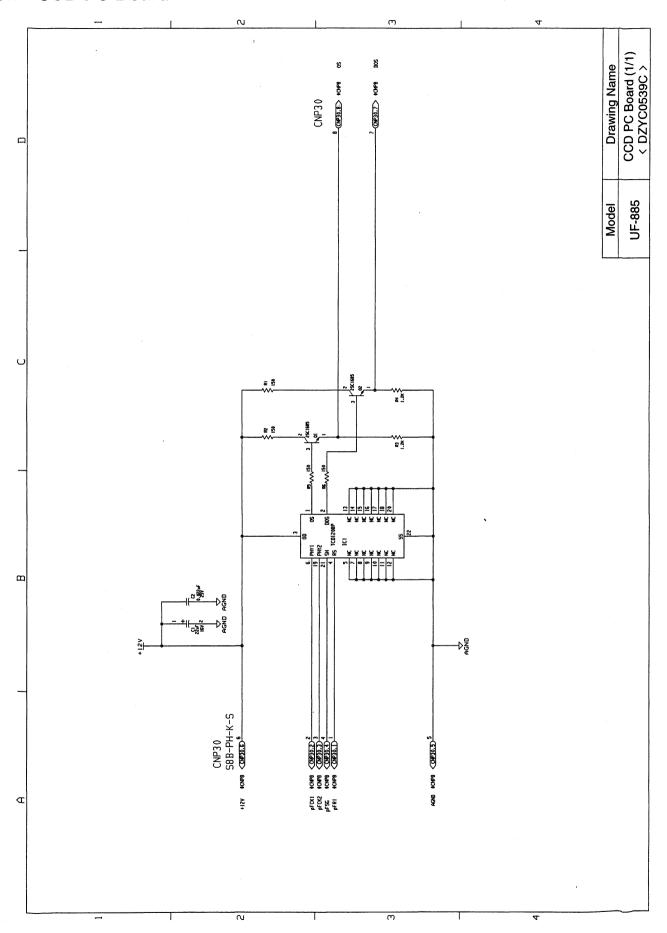


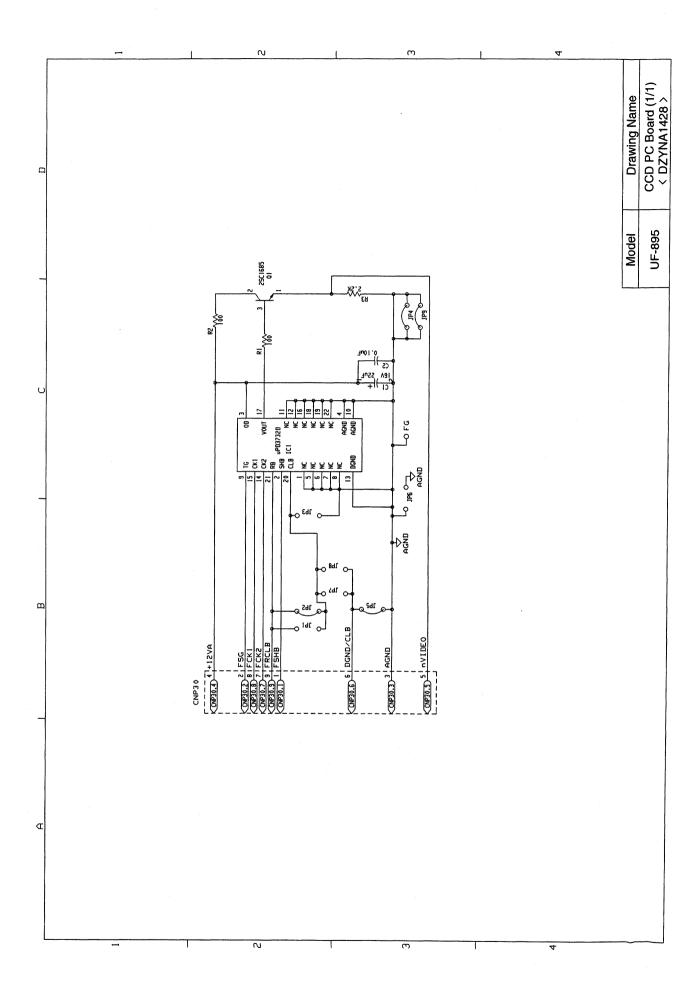




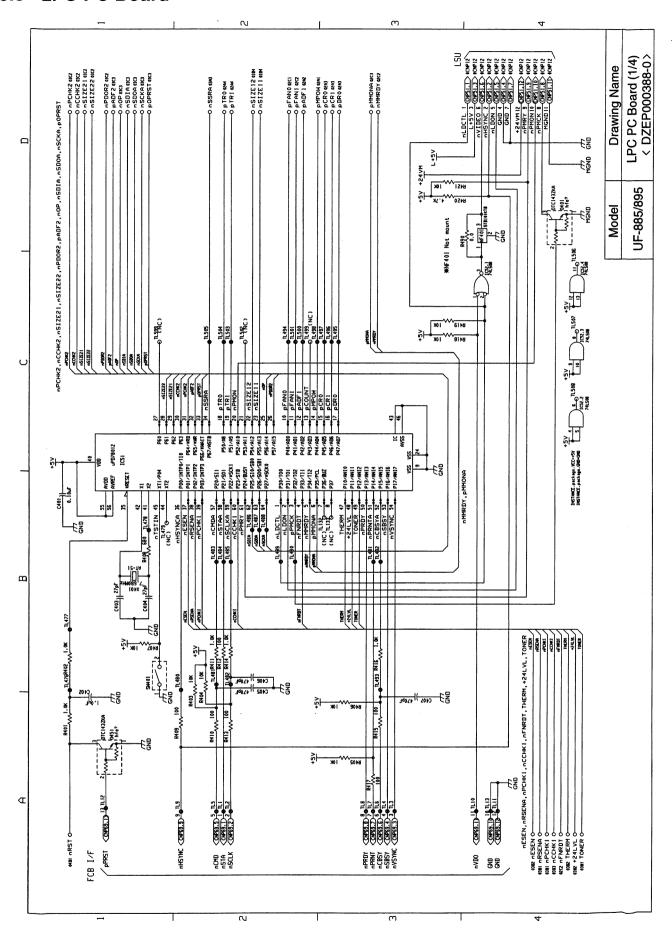


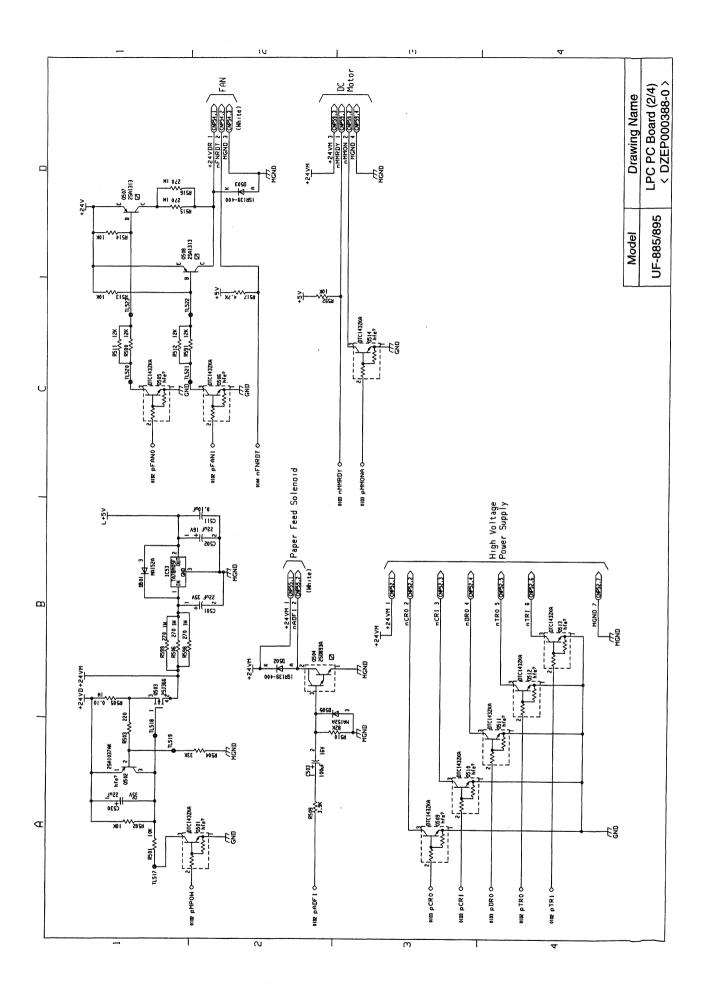
10.7 CCD PC Board

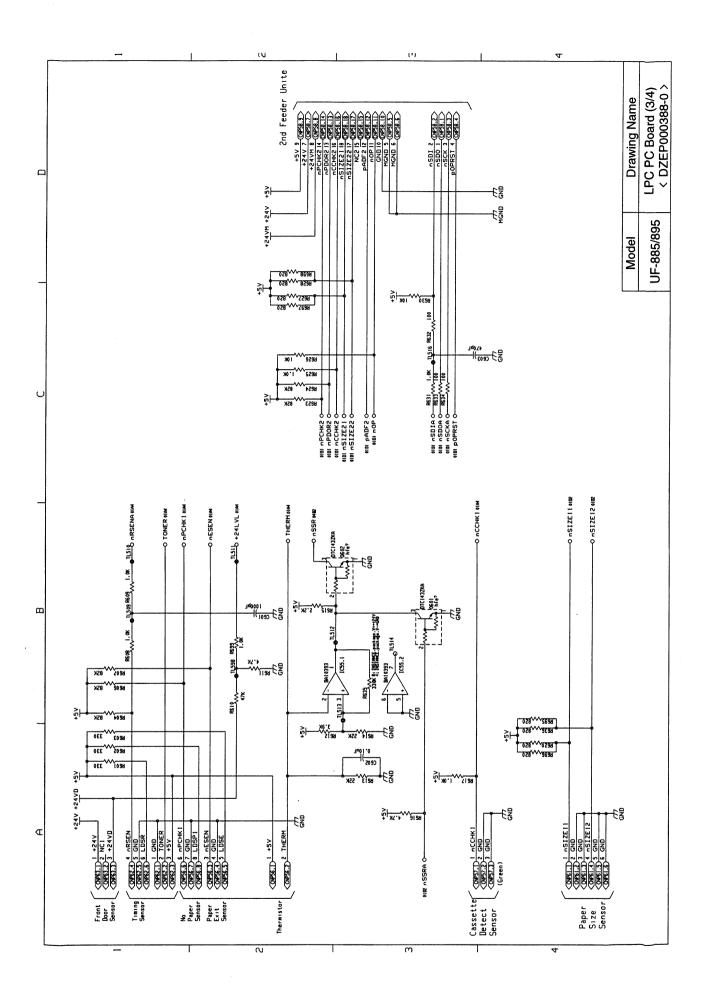


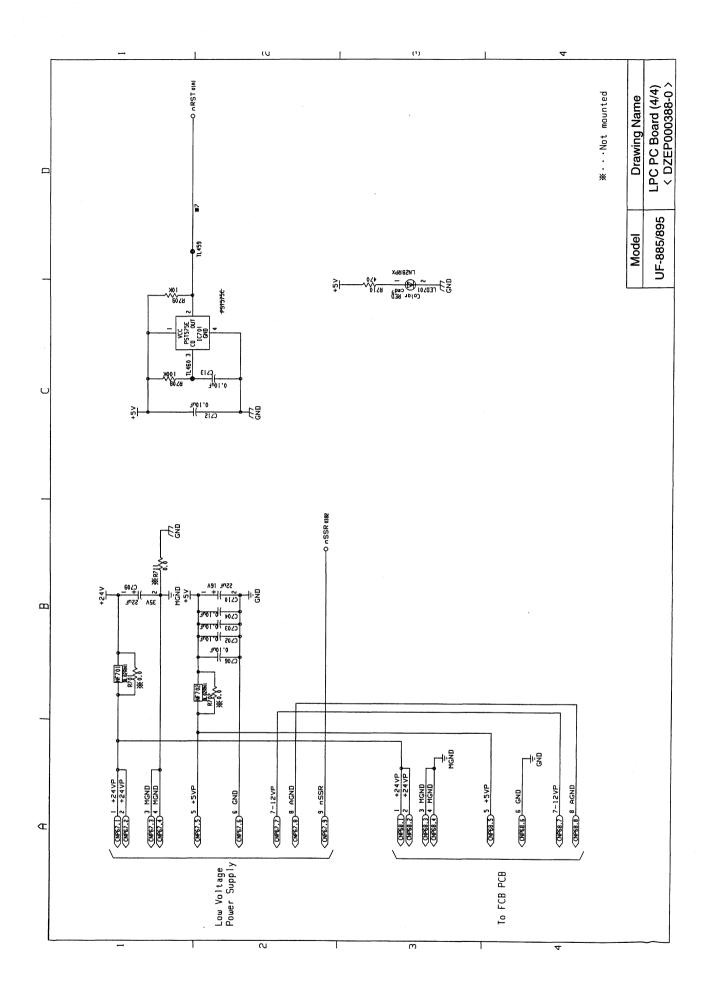


10.8 LPC PC Board

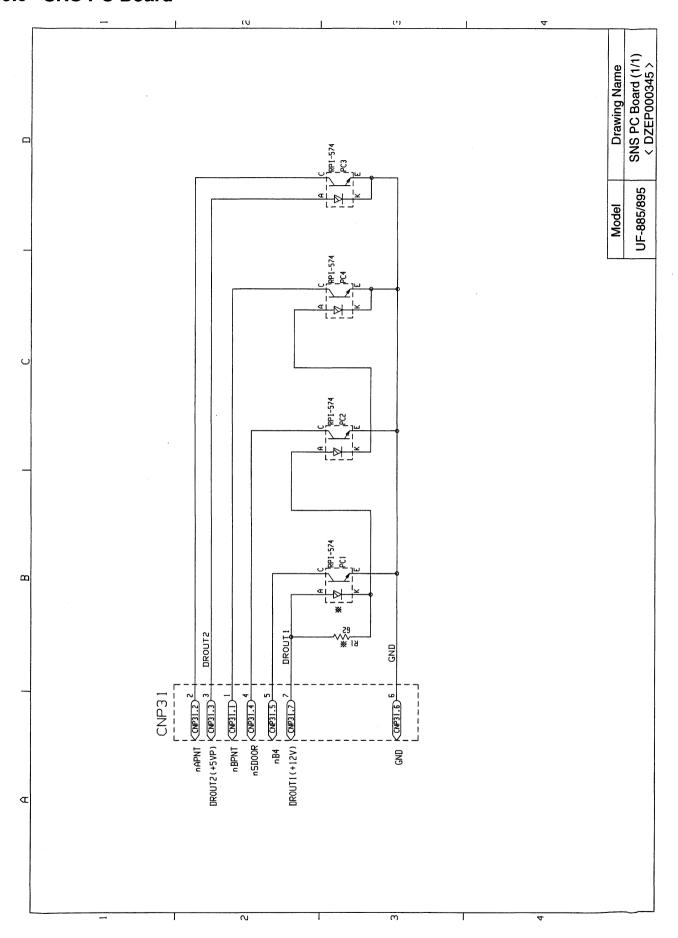




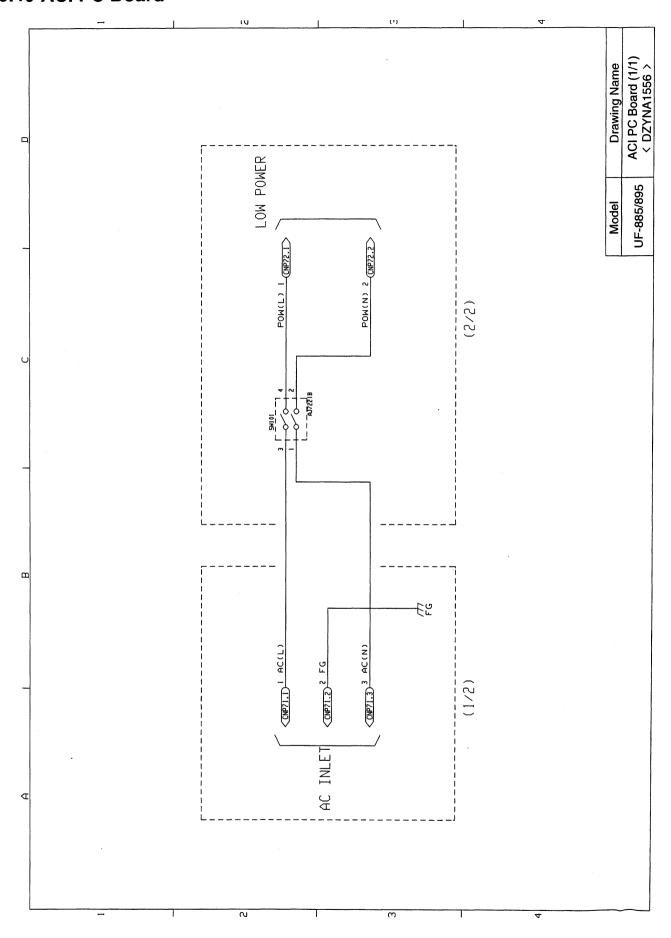




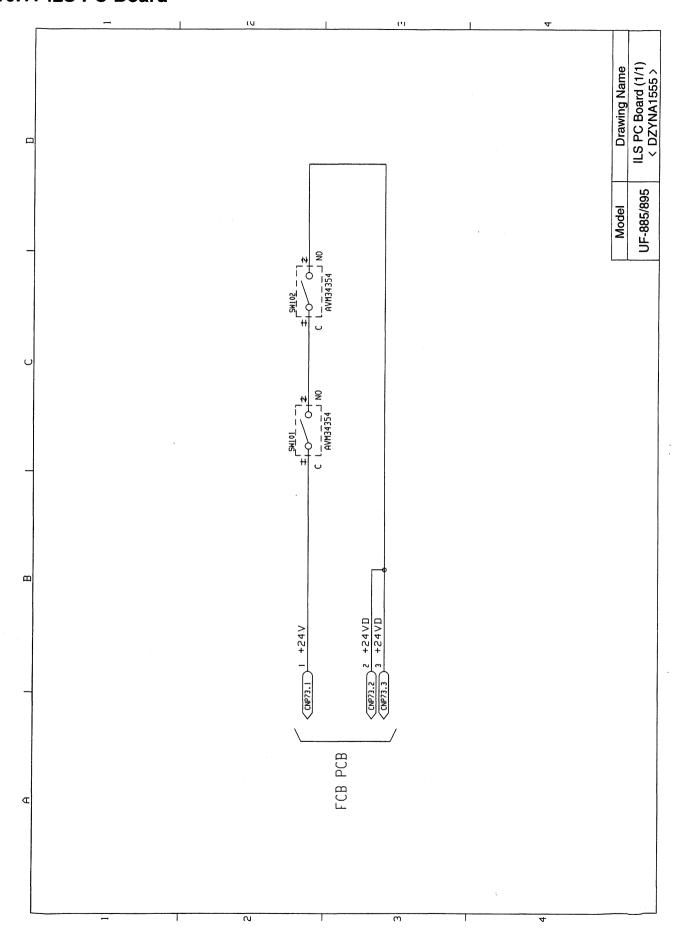
10.9 SNS PC Board



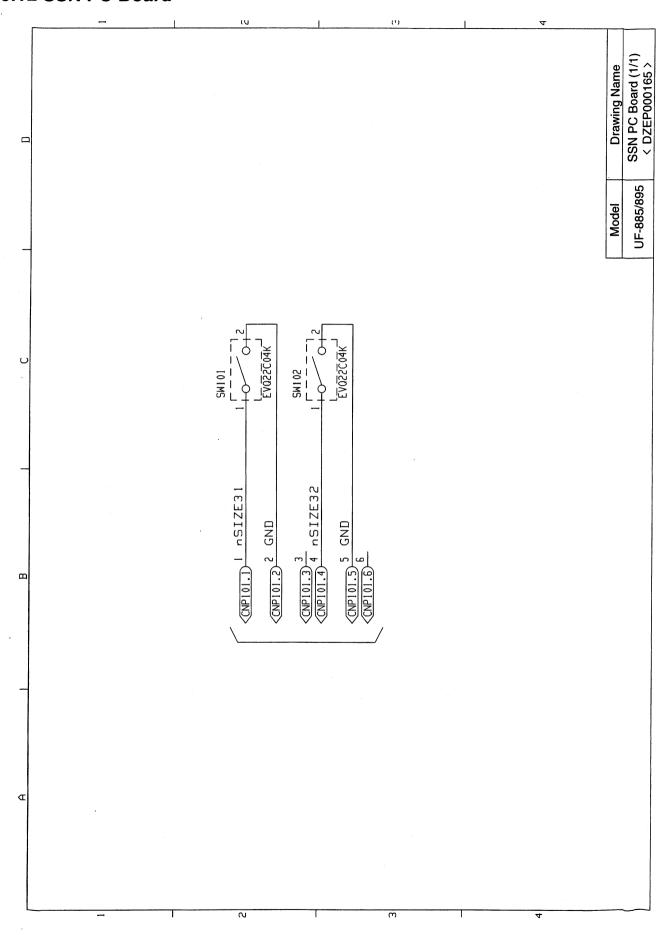
10.10 ACI PC Board



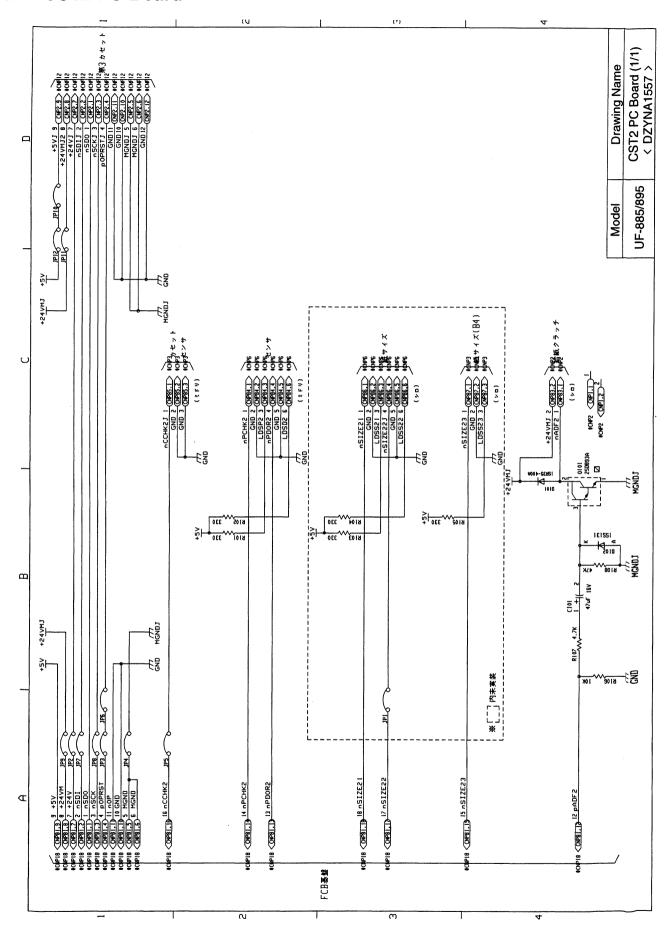
10.11 ILS PC Board



10.12 SSN PC Board



10.13 CST2 PC Board



10.14 CST3 PC Board

